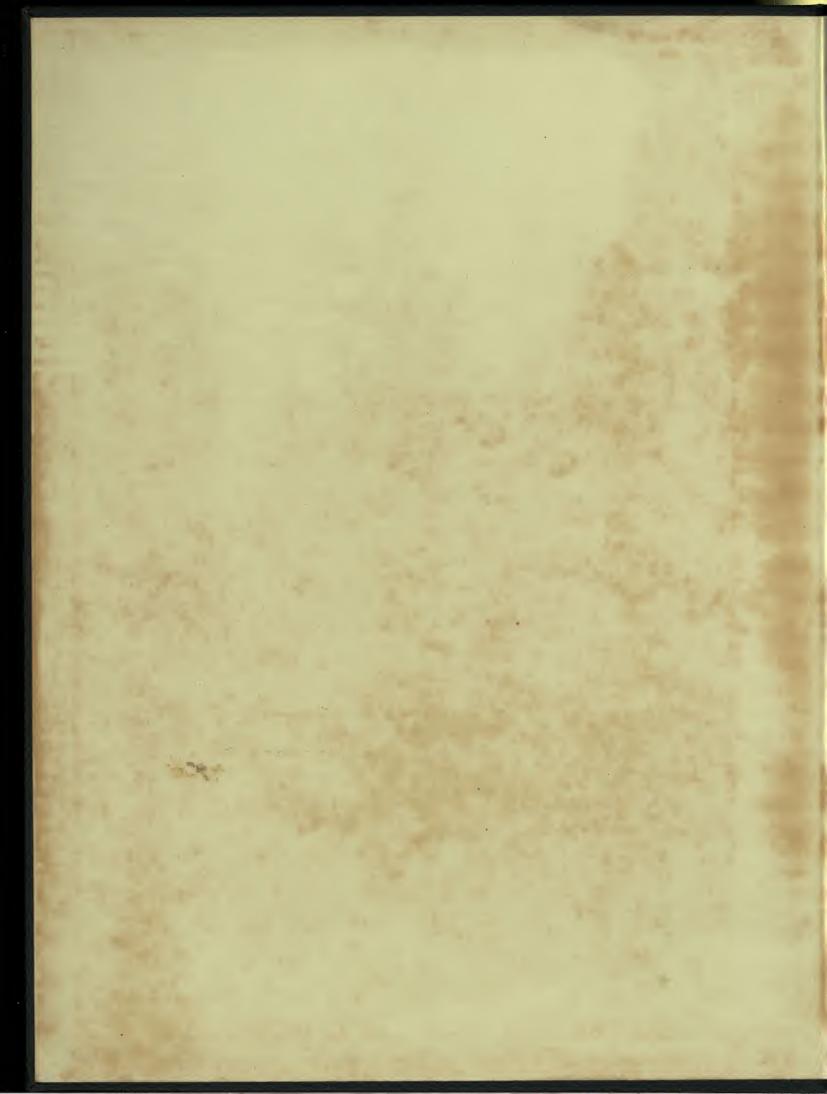


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-if they are planning to build their own homes

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Name
Address
·
Their architect is
Their builder is

APPLICATION

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Their architect is	

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119 WEST 40TH STREET . NEW YORK, N. Y.

FOREWORD

HOME OWNERS' CATALOGS is sent to you in the belief that it will help you derive greater satisfaction from your new home. You will find it of real assistance as a reference work and a valuable aid in the selection of building materials, equipment and furnishings.

Building a home is more than a romantic experience. Intensely practical aspects are involved, and the satisfaction you derive over the years will depend largely upon the success with which you meet the practical phases of house construction. Of these no others are so important as Design and Plan. Design and Plan must be adjusted to your Desires, your Needs, and your Budget. The architecturally trained man is better able to handle this phase of the home building opertion than anyone else.

Nevertheless, no one is as interested in your house as you are; you are going to pay for it; you are going to live in it. Once a material or an equipment goes in, it is there to stay. Once money is invested in furnishings, they are not to be discarded lightly. In taking care of this practical aspect of home building, nothing is more important than information.

Home Owners' Catalogs is a mine of current, reliable information. In it you will find descriptions of products that will increase the comfort and convenience of your home, enhance its appearance, make it less costly to maintain, and add to its value as an investment. You will find products that are new to you, and desirable suggestions that may not have occurred to you. You will probably add Home Owners' Catalogs to your library and consult it from time to time, as you redecorate or add to your home.

INDEX AND GUIDE TO CONTENTS

The catalogs containing home planning information and illustrating the products of the firms below are arranged by firm name in the same alphabetical order.

Armstrong Cork Products Company Floor and Wall Covering Products

E. I. Du Pont de Nemours & Co., Inc. Window Shades and Rug Pads

Burnham Boiler Corporation Heating, Ventilating and Air Conditioning Equipment

Kimberly-Clark Corporation Home Insulation

Philip Carey Company Roofing, Siding—Insulating and Dampproofing Products. Miami Cabinet Division

Kirsch Company Venetian Blinds. Curtain and Drapery Hardware

Bathroom Cabinets and Fixtures

Lockwood Hardware Manufacturing Co. Hardware for Doors-Interior and Exterior

Celotex Corporation Roofing, Siding-Insulating and Dampproofing Products

Minneapolis-Honeywell Regulator Company Control System for Heating, Ventilating and Air Conditioning

Crane Co. Bathroom and Kitchen Planning, Equipment, Fixtures and Accessories. Heating Systems, Domestic Water Supply

Streamline Pipe & Fittings Division Mueller Brass Company Copper Pipe and Fittings

H. A. Thrush & Company Forced Circulating Control System for Hot Water Heating

Hundreds of thousands of families about to have their own homes built received a similar copy of Home Owners Catalogs to aid them in Planning and Selecting Things for Their Home.



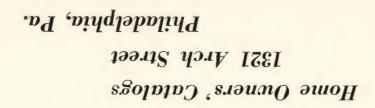
MAY WE HELP YOU FURTHER?



Check the items, below, which you would like to personally discuss with a salesman... or on which you desire additional information and literature. We shall endeavor to help you obtain further data from reliable manufacturers and dealers.

Please be sure to indicate, by checking in the appropriate column, whether you want to discuss each item personally with a salesman . . . or if you want literature only.

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		Summer	1110] [ass brick					Asbestos shingle
		Winter					rrors					Asphalt shingle
		AUTOMATIC CON					ate glass					Copper
		for heating and air	conditioning			Str	uctural glass					Slate
		AWNINGS BATHROOM ACC	ESSORIES		3 -	HA	indow glass ARDWARE (finis	ned)		3	Η,	Tile Wood shingle
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		Dining room				Ter	rmite proof	Ę		=	_ ' _	Flat Rolling
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GUIDE TO HOME PLANNING

Compiled by Elliott Taylor for the F. W. Dodge Corporation

Building a home is a skillful blending of romantic and practical considerations. Were it not for the romance involved, individual home ownership would not be the almost universal goal toward which all families aspire. Yet ownership for its own sake without the most exacting regard for its practical aspects would end only in dissatisfaction and disillusionment. To bring these practical aspects to your attention, at the time when their consideration will be of the greatest value to you, is the purpose of this guide.

OME building begins with the family that is going to live in that home. There is no aspect of design, plan, financing, or construction that can legitimately ignore this fundamental premise.

Any refinement or embellishment that is added to the house that you are going to build, or any choice of materials that go into it, must be made with two objectives in mind: to make it the best possible house for your own particular needs, and to accomplish this within the limits of your home building budget.

You are the one person best qualified to say what these particular needs are; and the architecturally trained man to whom you go for technical assistance is in the business of translating those requirements into the design and plans for a house that meet them.

In building a house you can hope to get what you want, only if you know what you want. And the man who designs that house can plan and specify for your family requirements only when he knows what your requirements are. Once you have supplied him with this information, he can approach the ideal of the best home possible for you, within the price limits that you set.

The financial aspects of home ownership are not analyzed in this treatise but that does not infer that they are to be considered lightly. On the contrary, they are of such paramount importance that any tabloid treatment of the subject would have to deal in such generalities that it would be valueless. If you have ample funds to build without borrowing, you will know how much you have to spend. If you plan to finance through a lending institution, the officers of that lending organization will set a limit on what you can reasonably expect to amortize over the period that you designate.

But one word of caution on this subject will not be amiss: determine in advance the amount of your maximum expenditure, and in any discussion with the architect, or builder, give him a straightforward statement of what this budget is to be. This, more than any single thing, will set his planning in the direction of a house that you can afford.

The CHECK LISTS I, II and III that follow are designed to enable you to set down in detail your ideas of a desirable home. Filling them in will serve not only to help you clearly see what you must have; but it will provide a work sheet to serve in your discussion with your architect.

CHECK LIST I IS A FAMILY INVENTORY of those who are to live in the new house. Taking an inventory of the family for the purpose of planning a home around it involves a good bit more than merely counting noses. It necessitates considering every member of the family as a future resident of that home, and planning in ad-

vance the accommodations that each one will require. And it is necessary also to visualize the family, not only as it is today, but as it may be next year and the years that follow next year if the home is to remain a continued source of comfort and satisfaction.

It is for that reason that the first check list makes special provisions for you to set down not only the things you must have, but also those things that you may expect or hope to have in the future.

CHECK LIST II IS THE PLAN ANALYSIS. Neither you nor your architect would willingly overlook a single item that would make yours a better house. From the Family Inventory in Section I has come a tabulated list of the desirable and required features of the home, as far as its occupants are concerned. These features, incorporated in the plan itself, are the subject of the Plan Analysis. For the number of rooms, closets, and halls constitute only the elementary framework of the plans. The size, location and arrangement of these factors and their adaptation to the habits of the occupants is of utmost importance.

Your conception of the exact kind of house you want will include not only the inside arrangements, although they are most important, but the exterior aspect as well. Here is another demand on the designer's genius, for once he has assembled and arranged those rooms to your own satisfaction, he must tie them together into a home that is as attractive from the exterior as it is livable in the interior. His wide knowledge of various styles of architecture, and of the possible uses of an infinite number of materials will be at your disposal as soon as he knows the general type of architecture and its treatment in materials that you prefer.

To insure that the requirements arrived at in the Family Inventory are accurately translated into the finished plans is the very important purpose of the Plan Analysis.

CHECK LIST III PRODUCT AND BRAND SELECTOR is a check list for the detailed consideration of materials and equipment. This list will be of special value to you if it is used in conjunction with the reference information on these materials found in Home Owners' Catalogs. Products that will increase the comfort and convenience of your home, enhance its appearance and make it less costly to maintain are all described. Many of them you will find you want, and can afford.

Competent architectural training is an essential in the planning of any home; and the experience of the skilled designer should be your guide in the selection of the materials that go into the building of your house. But the simple truth is that nobody can ever have quite the intense personal interest in every detail of your home that you have. Care and attention in the selection of materials is as much a part of your investment in home building as the funds that you supply to carry on the work. And it is the sort of an investment that pays fabulous dividends in the future satisfaction of every member of your family. It is for that reason that the final decision as to just what product most nearly suits you is, and should be, up to you.

THE FAMILY INVENTORY Home Owners' Check List I

This home of yours is to be in every sense a custombuilt product. It is to be tailored to your family measurements as a suit of clothes might be tailored to your own.

Taking an inventory of a family as prospective occupants of a new home involves many considerations. Entering into the calculations must be such factors as the occupations and hobbies of its members. A commuter who rushes six mornings a week for the 8:07 and carries on all of his business activities away from home will not require the space allotted to a professional man who maintains an office and a reception room in his house. The woman whose hobby is embroidery will not need the same facilities as the woman whose interest is in some arts or crafts requiring a studio or workshop.

Sharing a bedroom with wife or husband is to one a desirable and companionable way of living, while another may not regard it as an ideal.

The child who sleeps in a crib beside its mother's bed now, will one day require a room of its own, or at least one shared with another child of the same sex.

Guests who are not with you today may remember past assurances that they must come and "stay as long as you can" when the new home is finished.

Relatives do come, and sometimes they come to stay, and the home must accommodate them, too.

Gradual changes in your way of living, induced by better times, may mean the introduction of servants.

There is always a possibility that you may want to sell your house some time in the future, perhaps before the loan is fully amortized. It is well to keep this in mind in planning so that you may avoid bizarre and little accepted features that would impair its ready marketability. Your financial institution and your architect or builder are all competent to advise you in this regard.

All of these things must be considered now — not after the house has been finished. The form of family living implies some adaptation to the necessities imposed by the size and shape of the quarters occupied. Complete satisfaction can only come when you have decided in advance the concessions that can and cannot be made, and have planned your home accordingly.

Every contemplated feature of a home plan appeals to different individuals as being of greater or less desirability. It is not necessary to agree with the realists who contend that all design, construction and equipment must be measured by the inflexible rule of maximum utility. Many of the most charming features might be classified as not quite essential from a utilitarian standpoint. Yet they are the very things that make the difference to you, between just a house—and your own house.

Because these very essential non-essentials are important, space is provided for them on your check list. There are three columns, "Must Have", "Should Have" and "Hope to Have", and the optimistically labeled third column is just as important as the first. The only essential to ultimate satisfaction is that you correctly evaluate each feature in terms of its relative importance to your family. If a bedroom without a private bath would be intolerable to you, then that bath should go into the "Must Have" column, even though it crowds the sun porch over into the less imperative list of things you "Should Have" or perhaps only "Hope to Have".

This check list is designed to be as broad in application as possible. It is as much for the few fortunate families who can build with little or no concession to cost, as it is for those who have made up a maximum building budget and must stay within its confines. For this reason, if some of the problems posed may be completely irrelevant in your own case, don't waste time even pondering them. Leave them unconsidered or cross them off completely and go on about those features that you must have, should have, or hope to have.

Checking the first list should be easy. But once completed it is certain to be more revealing than the simple nature of its categories would indicate. Unless you are exceptionally gifted with foresight, you will probably find that questions have been brought up for decision that might never have occurred to you until after the house had been completed. And the information you set down will be of even greater value to the architect. It will save his time, which after all must be paid for by the client; and it will enable him to proceed with his plans on the basis of a clear factual knowledge of the exact problem that your particular requirements pose.

AREA REQUIRED FOR GROUP AND FAMILY ACTIVITIES, INCLUDING ENTERTAINING

CHECK LIST I FAMILY INVENTORY

SHOULD HAVE						
USED FOR: WHOPE TO HAVE SPECIAL CONSIDERATIONS OWNERS' COMMENTS						
USED FOR:	SPECIAL CONSIDERATIONS	OWNERS' COMMENTS				
RELAXATION AND ENTERTAINMENT						
Library						
Conservatory						
Music room						
Living room		-				
Game room	Basement1st floor2nd floor					
Bar or cocktail room	Basementlst floor2nd floor					
Study	Occasional use as guest room					
GUEST CONVENIENCES						
Coat closet						
1st floor lavatory						
Powder room		-				
CHILDREN TO ENTERTAIN						
Separate room	Individual callersParties					
Other room	Occasional use ofroom or					
DINING						
Separate dining room	To accommodate maximum					
	minimum					
Dining area in living room	Movable partitions					
Dining area in kitchen	For familyservants					
Breakfast alcove	Seats for					
Patio or terrace	Coveredscreenedshaded					

AREA REQUIRED FOR SPECIFIC PERSONAL USE OF WIFE

CHECK LIST I FAMILY INVENTORY

SHO	ULD	Н	AVE	
MUSTHAVE			HOPE TO HAVE	
USED FOR:	V	V	SPECIAL CONSIDERATIONS	OWNERS' COMMENTS
WORK				
(Aside from Housework)				
Study or office			Special equipment	
Studio			North lightspecial storage	
Workshop			Type of crafts	
Conservatory or			Exposureattached to house	
greenhouse			separate from house	
Sewing room			Used also for	
SLEEPING AND DRESSING				
Separate bedroom			Exposure preferredFloor	
1			LocationSize	William Control of the Control of th
Shared bedroom			Nearroom	
			Beds, twindouble	
Sleeping porch			Privateshared	
Separate dressing room			Built-in wardrobe	
B 1:			Special equipment	
Boudoir				
RELAXATION AND QUIET				
Private seclusion room			Possible occasional guest room	
Private sun deck				
BATHING AND TOILET				
Private bath			Used for exercise	
			Apparatus required	
Shared bath			Communicating with	
Tub and shower over			Communicating with	
Tub				
Shower only				
Shower cabinet and tub				
CLOSETS AND STOPAGE				
CLOSETS AND STORAGE Private closet				
			Located where	
Shared closet			Located where	
Built-in wardrobe			Located where	
Trunk and luggage space			One room for family	
Out-of-season storage			Cedar roomprivate	
			For family Size	

AREA REQUIRED FOR SPECIFIC PERSONAL USE OF

CHECK LIST I FAMILY INVENTORY

HUSBAND FAMILY INVEN

CHOULD HAVE

SHOUL			
MUST HAVE	V _	HOPE TO HAVE	
USED FOR:	V	SPECIAL CONSIDERATIONS	OWNERS' COMMENTS
WORK			
(Conducted at Home)			
Office		Special equipment	
Reception room			
Study		Private library	
		Occasional guest	
Reception room			
Outside door		Side entranceFront entrance	
Workshop			
Basement		Power toolsSize	
Separate building			
Garage			
Tool storage		Combined with garageseparate	
SLEEPING AND DRESSING			
Separate bedroom		Exposure preferred	
Shared bedroom		Beds, twindouble	
Sleeping porch		Shared with Private	
Separate dressing room			
Dressing room and wardrobe			
BATHING AND TOILET			
Private bath			
Shared bath		Communicating with	
Tub and shower over Tub			
Shower only			
Shower cabinet and tub			
CLOSETS AND STORAGE SPACE			
Private closet		Located where	
Shared closet		Located whereshared with	
Built-in wardrobe		Located where	
Built-in dresser		Located where	
Trunk and luggage		Privateor general	-
Out-of-season clothing		Family use	

AREA REQUIRED FOR SPECIFIC PERSONAL USE OF CHILDREN

CHECK LIST I

SHOULD HAVE MUST HAVE HOPE TO HAVE **USED FOR:** SPECIAL CONSIDERATIONS OWNERS' COMMENTS WORK OR STUDY Separate quarters Required for and and Shared Required for and and PLAY Separate room Enclosed porch Shop for boys Shared with father____ Equipment_ Entertaining SLEEPING AND DRESSING Required for and and Shared bedrooms Required for and and Separate bedrooms Required for____and___and__ Sleeping porch Required for and and Built-in wardrobe BATHING AND TOILET Required for and and Separate baths Required for and and Shared baths CLOSET AND STORAGE Required for and and Private closets Required for and and Shared closets Required for and and Toy storage Closet Window seat Luggage With other storage____ Out-of-season clothing

Separate___

OTHER PERMANENT RESIDENTS

CHECK LIST I FAMILY INVENTORY

SHOULD	IAVE	
MUST HAVE V	HOPE TO HAVE	
USED FOR:	SPECIAL CONSIDERATIONS	OWNERS' COMMENTS
SECLUSION Sitting room Sun porch		
SLEEPING Separate bedroom Shared bedroom		
BATHING AND TOILET Separate bath		
Shared bath	Communicating with	
CLOSET AND STORAGE	•	
Clothing Luggage		
SPECIAL FACILITIES REQUIRED	1st floor location	
	IsolatedElevator	
GUEST ROOMS REQUIRED		
With private bath		
Without private bath		
SLEEPING ROOMS REQUIRED FOR SERVANTS	Forandand	
With private bath	Forandand	
With shared bath	Forandand	
OTHER SERVANTS' ROOMS		1
In main house	Sitting roomdining room	
Above garage	No. roomsbaths	

AREA REQUIRED FOR DOMESTIC SERVICES

SHOULD HAVE MUST HAVE HOPE TO HAVE **USED FOR:** SPECIAL CONSIDERATIONS **OWNERS' COMMENTS** FOOD PREPARATION AND STORAGE Large___ Small___ Kitchen Exposure preferred____ Pantry Communicating with____ Refrigerator room Walk in Quick freeze compartment Fruit pantry Fruit cellar Wine cellar LAUNDRY Separate room Basement___lst floor____ Equipment required____Drying Cabinet____ Ironer___Ironing Board Cabinet___Tubs ____Mechanical Ventilation____Washing Machine____ Combined with kitchen Laundry trays under sink Separate GARAGE Attached to house Number of cars____ Basement Separate building With workshop Heated Living quarters over

Pool

GROUNDS

Orchard

Tennis court

Formal garden

Terrace

THE PLAN ANALYSIS

Home Owners' Check List II

At the time when you are "home-building" conscious, there is nothing in the world more fascinating than a set of plans, particularly the plans of the house in which you expect (before very long) to live. But the pleasant anticipation you feel in looking at sketches, drawings and blue prints will result in complete satisfaction in the finished house, only if the plans are correct in every detail before the actual building begins.

Many of these are details that no architect or builder can foresee without your assistance. For they involve these things that you and your family want and require, which are bound to be different in some aspects from those of any other family.

The whole purpose of these check lists is to enable you to visualize clearly just what these requirements are and to present them in concrete detail to your architect.

The Family Inventory in Section I has guided him in specifying the proper number of rooms, closets and other areas needed to best accommodate your family. But while that is a start, and a good one, toward a successfully planned home, it is only a start. The proof of the planning will be in the living; and the bare fact that a room exists for a certain purpose is by no means a final guarantee that it will most successfully serve that purpose.

That is why it is necessary for you as its future inhabitant to envision each room as it will be after the house-warming is over, and the house has settled down to the daily use for which it was intended.

To do this you must live in the house before it is built. The check list itself is arranged in an order to help you to accomplish this imaginary residence. With the preliminary sketches or plans, imagine yourself coming in through the front entrance, moving from room to room downstairs.

Picture the rooms as they will be with your furniture installed, making certain that there will be ample space to accommodate this furniture. Visualize the bedrooms and private living quarters of each resident as they will be in actual occupancy. Of every single factor that you consider, ask the questions: — is it convenient? is it adequate? is it just exactly what we will want?

Since the interior arrangement determines in large degree the exterior, you are now in a position to step outside and visualize the appearance of your home as others will view it. Consider the house as it will look from the outside. Is it the type of architecture that you prefer? Are roofs and sidewalls and porches just what you have always hoped to have since you first thought of building your own home? In short when it is finished will it not only be the house that suits you best, but will it also look like just that house? The style of home that your designer envisions will be shown on the preliminary elevation sketches that accompany your sketch plans. If you have ideas of your own, as every home builder has, the Exterior section of the Plan Analysis will enable you to check them with those proposed by your consultant.

Always bear in mind that the most economical time to make changes in your plans is when you can do it with a lead pencil and an eraser, instead of a saw and hammer.

There are certain canons of good planning which should be observed wherever possible, but most of these are only general rules. There is no specific rule for your house except that it must best suit your family needs. If you have an idea that seems desirable, discuss it frankly with your architect and be guided by his advice. Improvement in the design of your particular home may result from such discussion—but remember that insistence on an impractical idea will often result in serious disappointment and extravagance.

The sole purpose of The Plan Analysis Section of the check list is to make it easy for you to be certain that you get exactly what you want and expect. For this reason each heading is in the nature of a brief discussion of the function and purpose of various rooms with spaces to indicate the progress you and your family have made in considering these factors before the final plans are okayed.

The best way to use The Plan Analysis is to sit down with your sketch plans and elevations, and analyze the rooms one at a time. Whenever any changes are to be discussed, indicate each by an × opposite the specific item requiring further consideration. After the required changes have been made (or you have been obliged to abandon them for some practical reason) you can check mark V each item as O.K. for plans. A final O.K. check can be placed opposite the paragraph heading to indicate that all of the items checked below have been disposed of.

Your house may have any number of outside doors, but only one of them will be regarded as the principal entrance. You should consider how it will be used and plan it accordingly. Guests will come in through this door, and when they arrive the first necessity is a place for their coats and wraps. As a result, you may consider a closet in the entrance to be almost essential.

The doorbell will ring when you are entertaining inside. If you wish to insure privacy in answering the door, and to avoid interrupting the conversation of those you are entertaining, perhaps the entrance door should not open directly into the living room. Another consideration might be its location in relation to your stairway.

The Entrance	Check List
Mark X Further Consideration	Mark O.K. for Plans
EXPOSURE: North South East West ENTER FROM: Street garden drive porch terrace OPENING INTO: Living room hall storm vestibule garage door protected from weather DOOR FROM: Clothes closet bedroom dining room lavatory living room powder room study WINDOWS: Casement double hung glass brick one-way vision glass in door steel sash wood frame picture window	TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light closet light floor lamps wall brackets ELECTRICAL OUTLETS: Base plugs base plugs on wall switch door bell chimes outdoor floodlight porch light switch telephone wall plugs upstairs hall light switch BUILT IN: Telephone booth FURNITURE PROVISIONS: Chairs clothes-tree desk hall table settee telephone stand
POWIER The powder room, as such, is generally restricted to more pretentious homes where rather large scale enteraining is contemplated. It is merely an elaboration of the downstairs toilet and lavatory with space allowed or a dressing table or vanity. Often it is reached through a short entrance way that is also used as a closet for outside clothing of both family and guests. Since the powder room is dedicated to the convenience	ROOM of the ladies, it is generally decorated in feminine rather than masculine taste. A full-length mirror in the door is an appreciated convenience. A full mirrored wall is often planned, all depending, of course, on how elaborate this particular room is to be. Proper lighting around the dressing table is necessary since it will be extensively used for facial make-up.
Powder Room	
Mark X Further Consideration	Mark O.K. for Plans
DOORS FROM: Closet hall lavatory toilet	ELECTRICAL OUTLETS: Base plugs telephone vanity mirrors
WINDOWS: Casement double hung glass block TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light indirect strip lighting tubes wall brackets	BUILT IN: Cabinet make-up table mirrors separate toilet stall vanity FURNITURE PROVISIONS: Chairs desk dressing table sofa table

THE LIVING ROOM

The simplest approach to the question of a living room is from the standpoint of how it is to be used, the number of people it will normally be expected to accommodate - and the essential furniture that will be required for their comfort and relaxation.

On the opposite page are a number of patterns indicating the floor space that various pieces of furniture will occupy. If your plans are drawn to the scale of 1/4 inch equals 1 foot, as most house plans are, you can cut out these patterns and by placing them on the plans discover for yourself just how much furniture the proposed room will hold. In placing furniture around the walls, be sure that you don't forget the windows. Some pieces can stand under a window, but many others cannot. Windows should be grouped to allow for convenient location of furniture along the walls.

One common mistake in small houses is to regard the living room as a sort of hall, carrying traffic from one section of the house to another. This is not always easy to avoid, but when it is necessary, the disadvantage of such an arrangement can often be minimized by the proper placing of the doors. Try to locate the doors as close together as possible. If this is done, one may pass through the room without traveling its full length, and without passing in front of, or between persons sitting together in conversation.

Too many doors waste valuable space and herd your furniture into the middle of the room. Traffic through the living room destroys the sense of privacy of its occupants.

On pages 14 and 15 are shown twelve typical living room arrangements. They will enable you to visualize the various furniture group arrangements that home planning experts consider desirable. Any one of them may serve as a basis for grouping the patterns of your own furniture in the living room of your sketch plans.

The fireplace is always a focal point of a furniture group, and as such, if other conditions permit, should be placed out of the way of doors and windows. Doors flanking a fireplace almost preclude its use as a central point for a furniture grouping.

_ bookcases____ stor-

Living Room Check List

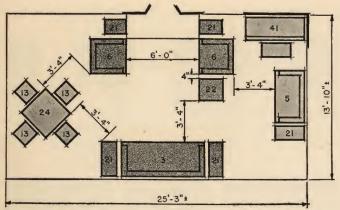
Mark X Further Consideration Mark / O.K. for Plans

EXPOSURE: North South East West	BUILT IN: Book shelves bo
	age cabinets window seats
PRINCIPAL VIEW TO: N S E W	FURNITURE PROVISIONS: (In
Facing: Garden street	commodate the furniture require
DOORS FROM: Conservatory dining room	room be sure to make ample p
hall kitchen music room patio	to circulate between groups and pieces. Remember that furniture
porch study	takes up more room than it does
WINDOWS: Casement cross ventilation	house.)
double hung french doors picture win-	Chairs: Occasional club
dow glass block plain glass ultra-	backed desk reclinin
violet glass	Davenports: Seating three
TYPE AND ARRANGEMENT OF LIGHTING: Ceil-	Desks: Small large
ing lights floor lamps indirect wall	combination desk and bookcase
brackets	Sectional pier pairs m
ELECTRICAL OUTLETS: Base plugs (plan	Tables: Square library
for an outlet wherever a table or desk will require	pairs circular coffee_
a lamp) base plugs on wall switch electric	Musical Instruments: Grand piano_
clock radio switch for hall tele-	harp console radio
phone outlet servants' bell	phonograph record cabinet_
	(If dining area is to be inc
FIREPLACE: Ash dump fuel bin log hoist	room): Dining table chairs
patent circulating unit roll screen	china closet linen chest

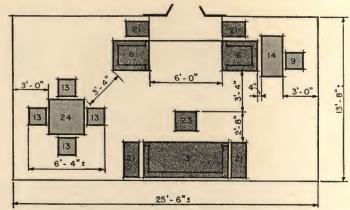
FURNITURE PROVISIONS: (In planning to ac-
commodate the furniture required in the living
room be sure to make ample provision for space
to circulate between groups and around individual
pieces. Remember that furniture that is being used
takes up more room than it does stored in a ware-
house.)
, and the second
Chairs: Occasional club wing straight
backed desk reclining love seats
Davenports: Seating three seating more
Desks: Small large secretary
combination desk and bookcase Bookcases:
Sectional pier pairs matched group
Tables: Square library console end
pairs circular coffee
Musical Instruments: Grand piano upright piano
harp console radio organ
phonograph record cabinet music cabinet
(If dining area is to be incorporated in living
room): Dining table chairs server
china closet linen chest tea wagon

All drawings at scale 1/4" = 1'-0" CHAIRS 9 13 12 6 SIDE OR DESK L 1'-6" D 1'-6" H 2¹-6" BRIDGE BRIDGE ARMLESS ARM. D 1'-6" WING L 2'-6" D 2'-6" H 3'-0" UPHOLSTERED ARMLESS OCCASIONAL L 2'-0" D 2'-0" H 2'-6" 2'-3" 2'-6" 3'-0" CLUB UPHOLSTERED H 2'-6" L 2'-0" O 2'-6" H 2'-6" LENGTH DEPTH CORNER CHAIR L 3'-0" D 3'-0" HEIGHT 3'-0" SOFAS LOVE SEATS 4 2 SMALL LARGE L 3'-6" D 2'-0" H 2'-3" "SHERATON" TYPE "CHIPPENDALE" TYPE L 4'-6" 6'-6" 2'-6" 3'-0" LENGTH 6'-0" DEPTH 2'-6" PLAIN UPHOLSTERED 7-0" 3'-0" 3'-0" HEIGHT 3'-0" D DESKS 14 18 16 16 FLAT TOP....SMALL LENGTH 4'-0" DEPTH 2'-0" HEIGHT 2'-6" GOVERNOR SECRETARY L 3'-0" D 2'-0" H 7'-0" FLAT TOP...LARGE 5'-0" 2'-6" 2'-6" L 3'-0" FLAT TOP VERY LARGE 6'-0" 3'-0" H 3-6" H 2'-6" BREAKFRONT BOOK CASES TABLES 19 20 22 END SMALL LARGE L 5'-0" D 1'-6" H 7'-0" CONSOLE L 3'-0" D 1'-6" H 2'-6" L 2'-0" D 1'-3" H 2'-0" END L 1'-8" D 1'-8" H 2'-0" LENGTH 4'-0" DEPTH 1'-6" COFFEE L 3'-0" D 2'-0" H I'-6" HEIGHT 6'-6" BRIDGE L 3'-0" D 3'-0" H 2'-6" LOWBOYS HIGHBOYS 26 28 29 CIRCULAR PIECES AVERAGE LARGE SWAN TOP L 3'-0" D 1'-6" H 7-0" FLAT TOP LENGTH 2'-6" DEPTH 1'-6" L 2'-8" D 1'-8" H 3'-2" 3'-0" LD HEIGHT 2'-6" 30 3 DIAM. 3'-0" HEIGHT I'-6" PIECRUST TABLE DIAM. 3'-0" H 2'-6" DRUM TABLE DIAM. 3'-0" H 2'-6" PIANOS 37...CONCERT GRAND L 9'-0" D 5'-0" 40. BABY GRAND (4) 5'-6" 5'-0" 37 STAND DIAM. I'-O" H 2L6" H 3'-4" H 3'-4" DUMBWAITER 38 38. MUSIC ROOM GRAND 41. CONSOLE LARGEST DIAM. 2'-0" H. 2'-6" 5'-0" 2'-0" 4'-3" L 7'-0" 50 4 36 40 H 3'-4" 35 39. PARL'OR GRAND 42. MINATURE 6'-0" 5'-0" 3'-4" L 4'-8" D 1'-7" H 3'-0" DH ROUNDABOUT SEAT LAMP TABLE DIAM. 2'-0" H. 2'-6" DEPTH OF SEAT 1'-6"

Page 13

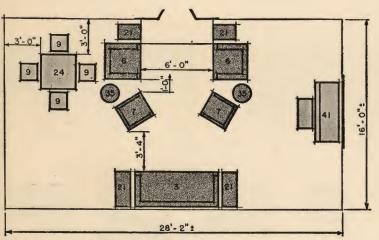


1. In all living rooms shown, main conversation group centered about fireplace is dark gray. Bay or picture windows may be used as focal points, instead of fireplaces.

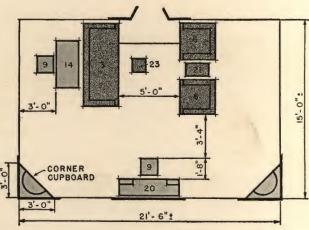


2. Clearance between low coffee table (23) and easy chairs (6) ought to be maintained at 3'-4" even though table is low, because the aisle here constitutes a major traffic way.

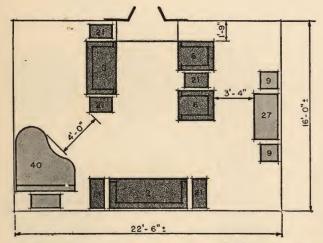
All drawings at scale: 1/8" = 1'-0"



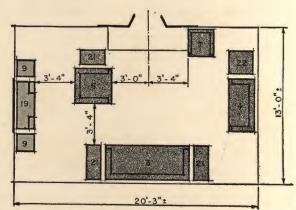
3. For larger families, or for those who entertain often, seating for 7 or 8 persons in the primary group is a reasonable design limitation.



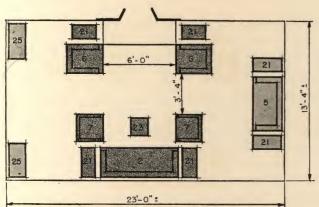
4. Here, presumably, doors at ends of room indicate use of one side of room as a traffic route. Primary furniture is grouped closely about the fireplace.



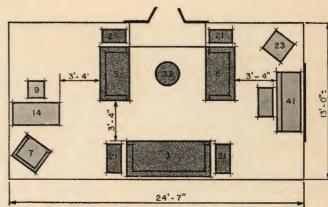
5. Grouping for door locations at both ends of room; ideally, 1-ft. clearance is desirable between piano and wall. Chairs (6) are smaller than those previously listed.



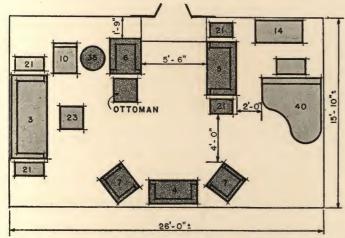
6. If living room has a "dead end" (no doors), primary unit may be spread to include entire end of room. Inclusion of music or game group would demand more area.



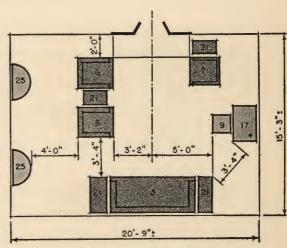
7. Primary group shown is one of most popular arrangements. Unit placing suggests entrance at left end. Secondary conversation unit often becomes music or game group.



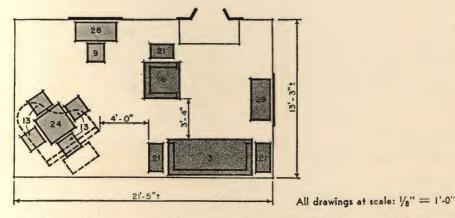
8. Writing or study group at left, music or game group at right, and center primary group, need minimum passages only when room is narrow.



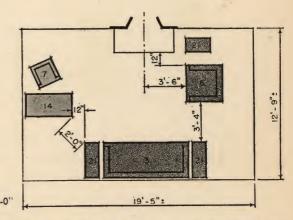
9. Ten persons can be comfortably seated in this type of arrangement, in which primary and secondary conversation groupings almost merge into one.



10. Several doors may be accommodated with this type of furniture-group unit arrangement. A traffic lane is assumed to exist at the left end of the room.



11. Notice that a game-table group occupies almost the same floor area as a baby grand piano. Placement at an angle is intended for informal rooms.



12. Fireplace chairs set 3'-6" back from center line of fireplace permit occupants to gaze at the fire comfortably. General traffic cannot be accommodated in a 2-ft. lane.

Check List II DINING ROOM OR DINING AREA

The separate formal dining room is no longer considered an essential for all house plans. For many families who usually entertain informally a dining area is included as part of the living room or as an extension of the kitchen, and the space saved is used for other activities. An effective living room-dining room arrangement is often achieved by planning an L-shaped room, the short leg of which becomes the dining area.

This provides considerable separation of the two rooms but gives the advantage of the appearance of a large living room. Screens, drapes or movable partitions can be used to separate the dining area from the living quarters during the preparation of meals. Families with a number of children may find a dining nook off the kitchen useful in addition to the conventional dining room.

If even a moderate amount of formal entertaining is done, the separate dining room will probably be found

to be a necessity. In checking your own plans, it is important to consider carefully the type of entertaining you usually do and to plan your dining quarters to correspond with your way of living.

The dining room plan requires considerable plain wall space as there are frequently as many as three large pieces that must be placed against the walls. Window groups can be arranged so that servers may be placed against or below them. There should be ample clearance, free of all furniture, around the table to allow space for serving. A much smaller space may be utilized for dining by placing the table in a corner with built-in benches on two or even three sides, although this makes serving more difficult.

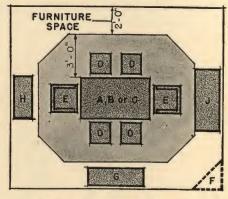
Possible arrangements of dining room furniture are shown in the floor layouts on page 17, perhaps one of these will enable you to visualize the dining room on your sketch plans as it will appear when your new home has been furnished.

Dining Room Check List

Mark X Further Consideration Mark / O.K. for Plans

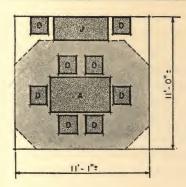
EXPOSURE: North South East West
DOORS FROM: Dining terrace hall kitchen living room pantry patio
Dining Area curtained by: Drapes movable partitions standing screens
TO SERVE regularly: Two four six more than six
WINDOWS: Casement double glass cross ventilation double hung french doors plain glass ultra-violet glass
TYPE AND ARRANGEMENT OF LIGHTING: Floor lamps indirect illumination overhead light spot lights for table recessed light wall brackets
wall switch bell to kitchen floor lamps grill illuminated table pieces
(They will seldom be all in use at once) percolator radio loudspeaker radio outlet out
sets attached to dining table telephone con nection toaster waffle iron

BUILT IN: Benches china closet linen
closet pass cupboard or buffet for service from
kitchen shelves sideboard
FURNITURE PROVISIONS: Chairs china closet
dining table linen chest server
serving table tea wagon

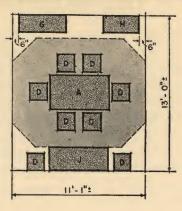


Dining Furniture Dimensions

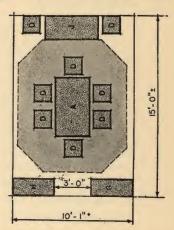
Dit	ing runniure Dimensions
TABLES:	A—Rectangular3'-0" x 5'-0"
	B—Refectory2'-6" x 5'-6"
	C-Round4'-6" diam.
CHAIRS:	D —Side1'-6" x 1'-6"
	E—Arm2'-0" x 2'-0"
CUPBOARDS:	F—Corner
	G—China cab1'-6" x 4'-0"
SERVERS:	H—Serv. table
	J—Sideboard2'-0" x 4'-6"



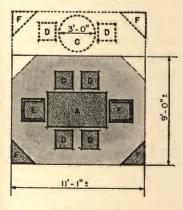
1. Minimum requires 2-ft. buffet space on one side only; 3' more length is needed for extension table.



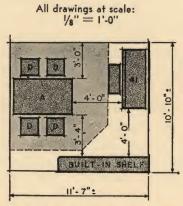
2. Typical dining room suite, as used in East and on West Coast, requires furniture space on two sides of room.



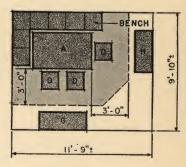
3. Long narrow area with some waste space results when wall pieces are at ends, and end entrance is needed.



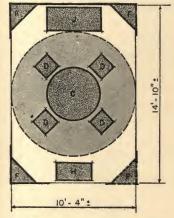
4. Solid lines indicate minimum room with corner cupboards, no wall furniture. Dotted lines indicate added space for 3' breakfast table.



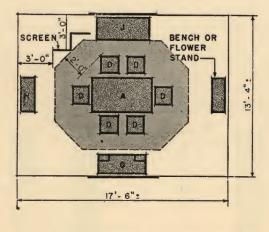
5. Table-and-passage unit in one corner permits use of minimum space for multiple activities; piano may be replaced by desk, love seat, etc.



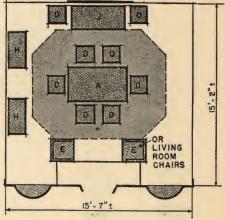
6. Spaces smaller than the usual minimum can be utilized if built-in seats are included; seating and table-service comfort are sacrificed.



7. The same set of clearances applies to the seldom used round table as to the more popular oblong table.



8. Arrangement of typical suite in larger-than-minimum space, when a screen is used at serving door.



9. Dining rooms with fireplaces have to be larger than minimum for the comfort of those seated at table.

Dark shaded area indicates the actual furniture.

Light shaded area indicates the floor space that must be allowed for furniture in use.

Check List II

THE KITCHEN

The important consideration in working out a kitchen plan that will be best adaptable to your own family's housekeeping activities is that you check it for convenience. There may be room for every item of equipment on the market and yet the placing of this equipment may completely invalidate its claims to labor saving.

The kitchen is divided into four areas, as indicated in the plans for kitchens shown below: (1) Food storage; (2) Food preparation; (3) Cooking; (4) Food serving. A general rule is that the kitchen storage center is located nearest the outside door. Next to it is the food preparation area which includes the sink, its drainboards, and the counters adjacent to it. The cooking center, of course, is occupied by the stove and the serving center is as close as possible to the entrance to the dining room or dining area.

The cabinets for flour, condiments, spices, and other materials used in the preparation of food are generally most accessible when located above the counters near the sink. Also, in close proximity, can be stored the pans and cooking utensils into which the prepared food is put

when it is ready for the stove. Adequate counter space is necessary in the serving area for the accommodation of salads and other dishes prepared in advance, as well as to allow the removal of cooked foods from the utensils to serving dishes that carry them to the table. Unless the kitchen is large enough to justify a separate pantry for washing silverware and dishes, the cabinet space above the serving counter is best for kitchen china storage.

The best way to judge your own particular plan is to prepare an imaginary meal from the time food is brought into the kitchen through the various stages of storing, preparing, cooking and serving. Make a special mental note of the line of travel that would be taken by the one doing the cooking. If there is a constant recrossing of the room and retracing of steps required, it simply means that the plan is not an efficient one.

The Check List should insure you against forgetting any item of convenience that you want in the kitchen. Only your studied consideration of your own kitchen practice will insure an efficient placement.

The Kitchen Check List

Mark X Further Consideration Mark / O.K. for Plans

EXPOSURES: North South East West DOORS FROM: Back porch back stairs cell dining room hall living room mair room pantry WINDOWS: Casement double hung glass bridge overlooking children's play yard window or sink	ar dishwasher double drain garbage digester single drain Refrigerator: Electric ga ice Stove: Electric coal gas oil Water heater: Electric gas Incinerator ck outlet washing machine built-in washing machine
TYPE AND ARRANGEMENT OF LIGHTING: Automa cupboard lights ceiling light cove lights und wall cabinets over sink over stove oth work centers soffit lights strip lighting tubes. ELECTRICAL OUTLETS: For clock electric stove fruit juice extractor grill grinder iron iron mixing machine percolator plate warm radio refrigerator toaster sile switches waffle iron telephone washing refrigerator	der drawers medicine cabinet package receiver pass cupboard to pantry pass cupboard to dining roon serving counter silver drawers work counters FURNITURE PROVISIONS: Breakfast table chair ner kitchen cabinet planning desk rollin table stationary table PANTRY: For dish storage food storage servin
Chine pilot switch to basement	Sink TO BACK PORCH TABLE TO BACK PORCH TABLE TO BACK PORCH TABLE TO DR. © TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO DR. © TO BACK PORCH TABLE TO BACK PORCH TABLE TO BACK TABLE TO BACK PORCH TABLE TO BACK T
LI STAPE: for the kitchen is compact and convenient, having the ad- vantage of no through traffic between doors. are impossible.	be located at either end. Surface along two walls. 2 PREPARATION 3

The first question to decide in reference to the laundry is whether enough of this work is done at home to require a separate room for this purpose. If the greater part of the washing, ironing and cleaning is done by commercial establishments a single laundry tray in the kitchen may be more satisfactory and economical in your plan. But if any large part of the laundry is cared for at home, the kitchen laundry seldom provides enough space and may interfere seriously with cooking and other kitchen work.

The efficient laundry should have floors and walls that are easy to keep clean. Particularly if the room is located in the basement, there should be good lighting for all work centers. Tables should be provided for sorting clothes, receiving wet clothes and for the ironing. Built-in work tops, under which baskets, boiler and supplies such as soap, clothes pins and cleaning fluid may be stored, are probably most desirable. If these are enclosed in cabinets and a flat top or entire cabinet provided for the laundry trays, the laundry room can serve an alternate purpose as a game room, summer kitchen

(particularly during the canning season) or as a servants' dining room.

With the exception of the stationary tubs, practically all laundry equipment is movable and when not in use can be stored in a small area behind an attractive screen or partition.

Since a small stove of some kind is necessary in the laundry for boiling clothes and starch making, the room lends itself well when not in use as a laundry, to parties where informal cooking is done, and the room may be decorated with this in mind.

A laundry room located near the kitchen provides a good play room for children, where a busy mother can oversee them. A laundry located in the basement may serve still other functions; it may contain the hot water supply system and even the heating plant, provided a clean fuel is contemplated.

Of particular importance, when a laundry is located in the basement is that it have easy access to the drying yard.

The Laundry Check List

Mark X Further Consideration Mark / O.K. for Plans

LOCATION: First floor basement accessible to drying yard DUAL USE AS: Sewing room summer kitchen servant's dining room children's play room bar or game room DOORS FROM: Kitchen hall drying yard back porch outside furnace room cellar stairs	BUILT IN: Cabinet around tubs clothes dryer drying racks clothes chute hamper for storing and sorting clothes ironing board supply shelves washing machine work tops for sorting and sprinkling, etc Cabinets for: Bar canned goods game equipment laundry supplies
WINDOWS: Double hung casement top hung TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light over work centers strip light-ing Soffit lights wall brackets	MECHANICAL EQUIPMENT: Sink Laundry trays: 1 2 3 ironer washing machine Dryer: Gas electric Hot plate: Gas electric pot stove ven- tilator fan bar refrigerator
ELECTRICAL OUTLETS: For dryer electric clock floor and table lamps hot plate iron ironer overhead lights washer	FURNITURE PROVISIONS: Cabinet chairs — dining table hampers racks sewing cabinet sewing table stationary game equipment utility tables

The actual number of bedrooms in your new home will be determined by the size of your family, your living habits and the number of guests and servants you may expect to accommodate. As you check over your sketch plans, the important considerations of room size, location of bedrooms in relation to each other and their adaptability to the furniture that they are to contain arise. To the layman, a room frequently looks larger on the plan or blue print than it turns out to be when it is occupied. It is an unpleasant shock to find that a bedroom will not conveniently accommodate the necessary furniture or that this furniture can be used in only one arrangement.

To allow freedom of arrangement it is necessary to plan in advance for ample free wall space. Twin beds require more floor and wall space than a double bed. It is a great convenience in making beds to be able to approach them from both sides without pulling them out from the walls. This requires a clear passage of twenty inches on each side and at the foot of the bed. The bed should be located in a position where it is not necessary to walk around it to go from the dressing table to the closet or bath.

The following suggestions are not inviolable rules, but they should be considered if you wish to provide the maximum of comfort for the home's private quarters:

The bedrooms should be located as far from the living and entertaining area as possible.

Locating the bedrooms on the quiet side of the house, away from the street, helps to provide undisturbed sleep.

Eastern and southern exposures are more desirable than northern or western. A bedroom that is to be used to some extent as a living room for its occupant should have preference as to exposure and view.

Every bedroom should have direct access from the hall without passage through any other room.

A room to be occupied by small children should be

communicating with or at least close to the room to be occupied by the mother or nurse.

Windows and doors should be arranged to provide cross ventilation.

Tops of windows should be near the ceiling to permit a maximum of ventilation and light.

Every bedroom should have a clothes closet, two closets in rooms to be occupied by two persons.

These requirements are the simplest essentials of comfort. There are still additional features that are well worth advance consideration. It is possible to conserve space by regarding the dressing room as part of the bathroom. A built-in dresser located in the clothes closet or dressing room will conserve floor space. Closets serving adjacent bedrooms act as sound insulators between the rooms when they occupy the full area of the wall that separates them.

As children grow older they may wish to use their rooms for study or daytime entertaining of school friends. Built-in wardrobes and vanities with a studio couch or bunk taking the place of a bed will help to give their rooms a living room atmosphere.

Where bedrooms interconnect with the bath, a short hall opening into the bath is the best arrangement.

Some means of shutting off the bedrooms from the living quarters so that the latter may remain warm during cold nights when bedroom windows are open will prove a heating economy.

In using the check list with your sketch plans, identify each bedroom first by a letter, if your architect has not done so. You can then proceed without inconvenience to examine the merits of each room individually. Complete the entire checking of one room (Bedroom A for instance) before proceeding to the next. On page 22 you will find eight typical bedroom group units. They are designed to enable you to picture your own rooms with furniture installed.

Bedroom Check List

Mark X Further Consideration Mark / O.K. for Plans

	MIGIR A FULTHER Consideration	Mulk O.
Designate on Plan	To be occupied by:	
A		EXPOSURI
В		
C		North South
D		East
E		West
F		

E:

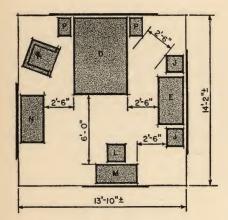
	A	B	C	D	E	F
North						
South						
East						
West						- (

BEDROOMS

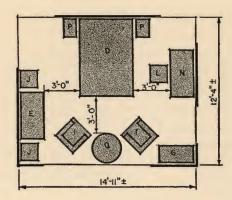
DOORS FROM:	BUILT IN:						
Hall A B C D E F		1 A	B	1 C	ID	IE	F
HallPrivate bath	Bed						
Other bedroom.	Bunk						
Shared bath	Clothes closet						
Private dressing room	Double-deck bunks	_	_	-			
Boudoir or study	Dresser						
Sleeping porch.	Folding bed						
Sundeck.	Mirror			_	_		
	Shoe racks			-			-
WINDOWS:	Vanity			_	-		
	Wardrobe			-	-	-	
CasementABCDEF	Two clothes closets	l —	I —	-			
Dauble hung							
Double hung. Cross ventilation	FURNITURE PROVISION	INS	:				
Plain glass.							
1 min grass	Bassinet	A	В	C	D	E	F
TYDE AND ADDANGEMENT OF LIGHTING	Dassinet				_		
TYPE AND ARRANGEMENT OF LIGHTING:	Bedside table	_	_				
A B C D E F	Bookcase			-	-		
Ceiling light.	Chaise longue	_			_		
Floor lamps	Chest of drawers			_			
Indirect.	Child's play pen				_	_	
Wall brackets	Convertible davenport				-	-	_
	Crib	_			_		
ELECTRICAL OUTLETS:	Day bed			_			
A B C D E F	Desk chair						
Bed light	Double bed						
Call bell	Dresser						
Dresser light	Dressing table						
Electric clock	Dressing table for infant						
Door switch for closets	Floor lamp						
Night light	Radio						
Radio	Single bed						
				-	-		-
Switch for hall	Slipper chair						
Switch for outside flood lights	Study table	_					
Switch for outside flood lights	Study table Twin beds	_					
Switch for outside flood lights	Study table	_	_				
Switch for outside flood lights Telephone Vanity mirror	Study tableTwin bedsWriting desk	_					
Switch for outside flood lights	Study table Twin beds	_					
Switch for outside flood lights Telephone Vanity mirror DRESSING	Study table	_					
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by	Study tableTwin bedsWriting desk	_					
Switch for outside flood lights Telephone Vanity mirror DRESSING	Study table. Twin beds. Writing desk. ROOMS BUILT IN:		В	C			F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.)	ROOMS BUILT IN:	A	В	C			F
Switch for outside flood lights Telephone Vanity mirror Unity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM:	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser.	A	В	C			F
Switch for outside flood lights Telephone Vanity mirror Unity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM:	Study table Twin beds Writing desk ROOMS BUILT IN: Closets Dresser Vanity Wall cabinet	A	B 	C			F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only A B C D E F	Study table Twin beds Writing desk ROOMS BUILT IN: Closets Dresser Vanity Wall cabinet	A	B 	C			F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath A B C D E F Bedroom and bath	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity.	A	B 	C			F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror.	A	B 	C			F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms Hall	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe.	A	B				F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms	Study table. Twin beds. Writing desk. ROUMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS:	A	B 				F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms Hall WINDOWS: A B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir.	A	B		D	E	F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms Hall WINDOWS: Casement A B C D E F B F B C D E F B F B C D E F B F B C D E F B F B C D E F B F B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room.	A	B		D	E	F
Switch for outside flood lights Telephone. Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only. Bedroom and bath. Two bedrooms. Hall. WINDOWS: Casement. Double hung. A B C D E F B F B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room.	A	B		D	E	F
Switch for outside flood lights Telephone. Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only. Bedroom and bath. Two bedrooms. Hall. WINDOWS: Casement. Double hung. Plain glass.	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room.	A	B		D	E	F
Switch for outside flood lights Telephone. Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only. Bedroom and bath. Two bedrooms. Hall. WINDOWS: Casement. Double hung. A B C D E F B F B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room.	A	B B		D	E	F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms Hall WINDOWS: Casement Double hung Plain glass. Ultra-violet glass	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room.	A A DNS:	B B B	C	D D D	E	F
Switch for outside flood lights Telephone. Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only. Bedroom and bath. Two bedrooms. Hall. WINDOWS: Casement. Double hung. Plain glass. Ultra-violet glass TYPE AND ARRANGEMENT OF LIGHTING:	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study.	A	B B		D	E	F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms Hall VINDOWS: Casement Double hung Plain glass Ultra-violet glass TYPE AND ARRANGEMENT OF LIGHTING: A B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase Chaise longue.	A A DNS:	B B B	C	D D D	E	F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms Hall WINDOWS: Casement Double hung Plain glass Ultra-violet glass TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light DRESSING A B C D E F D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase Chaise longue. Chest of drawers.	A A DNS:	B B B	C	D D D	E	F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms Hall WINDOWS: Casement Double hung Plain glass Ultra-violet glass TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light Indirect A B C D E F D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase Chaise longue. Chest of drawers. Desk chair.	A A DNS:	B B B	C	D D D	E	F
Switch for outside flood lights Telephone Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only Bedroom and bath Two bedrooms Hall WINDOWS: Casement Double hung Plain glass Ultra-violet glass TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light DRESSING A B C D E F D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase. Chaise longue. Chest of drawers. Desk chair. Dresser.	A A DNS:	B B B	C	D D D	E	F
Switch for outside flood lights Telephone. Vanity mirror Cach dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: A B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase Chaise longue. Chest of drawers. Desk chair. Dresser. Dressing table.	A A DNS:	B B B	C	D D D	E	F
Switch for outside flood lights Telephone. Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only. Bedroom and bath. Two bedrooms. Hall. WINDOWS: Casement. Double hung. Plain glass. Ultra-violet glass. TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light. Indirect. Wall brackets. ELECTRICAL OUTLETS:	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase Chaise longue. Chest of drawers. Desk chair. Dresser. Dressing table. Floor lamp.	A A DNS:	B B B	C	D D D	E	F
Switch for outside flood lights Telephone. Vanity mirror Cach dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: A B C D E F	Study table. Twin beds. Writing desk. ROUMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase Chaise longue. Chest of drawers. Desk chair. Dresser. Dressing table. Floor lamp. Mirror.	A A DNS:	B B B	C	D D D	E	F F
Switch for outside flood lights Telephone. Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only. Bedroom and bath. Two bedrooms. Hall. WINDOWS: Casement. Double hung. Plain glass. Ultra-violet glass. TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light. Indirect. Wall brackets. LECTRICAL OUTLETS: Baseboard. A B C D E F Baseboard. A B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase. Chaise longue. Chest of drawers. Desk chair. Dresser. Dressing table. Floor lamp. Mirror. Radio.	A A DNS:	B B B	C	D D D	E	F F
Switch for outside flood lights Telephone Vanity mirror Cach dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: A B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase Chaise longue. Chest of drawers. Desk chair. Dresser. Dressing table. Floor lamp. Mirror. Radio. Wing chair.	A A DNS:	B B B	C	D D D	E	F
Switch for outside flood lights Telephone. Vanity mirror DRESSING (Each dressing room should be identified by the same letter as the bedroom it serves.) DOOR FROM: Bedroom only. Bedroom and bath. Two bedrooms. Hall. WINDOWS: Casement. Double hung. Plain glass. Ultra-violet glass. TYPE AND ARRANGEMENT OF LIGHTING: Ceiling light. Indirect. Wall brackets. LECTRICAL OUTLETS: Baseboard. A B C D E F Baseboard. A B C D E F	Study table. Twin beds. Writing desk. ROOMS BUILT IN: Closets. Dresser. Vanity. Wall cabinet. Wardrobe. Mirror. DUAL USE AS: Boudoir. Sewing room. Storage room. Storage room. Study. FURNITURE PROVISIO Bookcase. Chaise longue. Chest of drawers. Desk chair. Dresser. Dressing table. Floor lamp. Mirror. Radio.	A A DNS:	B B B	C	D D D	E	F

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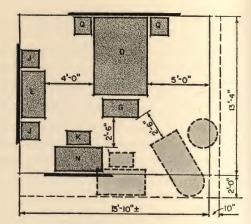
HOME OWNERS' CATALOGS



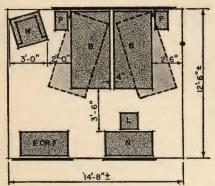
1. For comfort, 2 night tables are desirable with a double bed. A minimum double-bed unit arrangement may be achieved by omitting arm chair and one side chair, and reducing to 3'-6" the traffic lane at foot of bed.



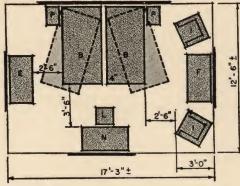
2. Use of small chairs and chest makes possible the addition of conversation or lounging furniture (2 chairs and table) to a typical suite, without increasing square footage. Use of 3-ft. passages eliminates crowding.



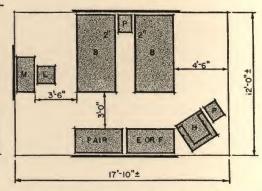
3. Other types of arrangements beyond the minimum include addition of a chaise lounge (shown dotted above) which is usually placed at an angle to walls, requires a table, and necessitates ample passages.



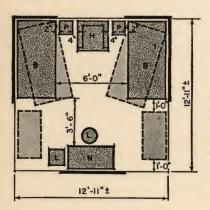
4. Minimum twin-bed group (2 night tables) needs 9'-6" wall.



5. Increased requirements for addition of dressing table and boudoir chair.

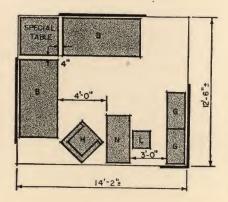


6. Twin beds with single night table require 8' of wall space.



Scale: 1/8" = 1'-0"

7. Variations on this plan may be developed by replacing the chair between the beds with a dressing table which serves also as a night table. This would free other walls for twin chests, shown dotted.



8. Twin beds heading toward a common corner may require less space than is indicated if dressing table and boudoir chair are omitted.

Opinions vary as to the minimum bathroom facilities that constitute adequate accommodation in a dwelling. The truth of the matter is that, bathrooms being comparatively expensive, the average home builder is inclined to plan as close to the minimum as possible.

One rule widely advocated by an architectural publication is to the effect that a home for three persons or more should make provision for two water closets, two lavatories, one shower and one bathtub. Where bedrooms are located on two different floors, one additional bathroom must be considered practically indispensable. An additional complete bathroom for every two bedrooms over three is also observed as a general rule to insure adequate toilet facilities.

eignata

Competent planners are able to reduce the cost of bathroom installations to some extent by locating them so that the plumbing and waste lines are close together. A bathroom with lavatory and tub immediately above the kitchen will save money and piping, as will two bathrooms placed adjacent to each other with a common water supply running in through the dividing wall.

The usefulness of the bath is increased if the water closet is located in a separate compartment opening from the hall rather than from the bathroom proper.

In checking the plans against the Check List it will probably be convenient to number each bath for identification, indicating whether it is to serve a specific bedroom or bedrooms or whether it is for general family use.

Bathrooms Check List

Mark X Further Consideration Mark / O.K. for Plans

Designate		ENTRANCE FROM:				
on Plan	To be used by	Ziviziti (GE Titolii)	1 4	l D	101	l n
		Bedroom	A	D	6	ע
		Dressing room	-			
A		Dressing room	-			-
D		Hall		_		-
В		1 wo bedrooms	1			I —
C						
С		WINDOWS:				
D			1 4	В		l D
D		Cacament	A	ь	<u></u>	D
		Casement				
		Glass brick	.			_
TYPE AND ARRANGEM	ENT OF LIGHTING:	Plain glass				
	LAIBICID	Ultra-violet glass				
Ceiling		Oldid-violet glass		1		
Illuminated mirrors						
Strip lighting tubes		FIXTURES:				
Ultra-violet ceiling fixtures			LA	l R	I C	I D
Wall brackets		Water closet in bathroom	A	ь	L .	D
Shower stall light		In separate compartment				
· ·		Lavatory: Corner	.			
ELECTRICAL OUTLETS		Pedestal	.			-
BEECHHICAL OUTLETS		Wall	. —			_
in -	ABCD	Bathroom scales	. —			
Fan		Bathtub	. —			
Glow heater		Cabinet				_
Hair dryer		Dental lavatory				
Razor		Exercising apparatus				
Sun lamp Vibrator		Mirrors				
vibrator		Separate shower				
		Shower ever tub				
BUILT IN:						
	IAIBICID					
Clothes chute		FURNITURE PROVISIONS:				
Clothes hamper			IA	B	I C	I D
Drying rack		Chair				
Clothes hamper		Chair				
Medicine cabinet		Hamper				
Towel closet		Stool				
				-		

Check List II CLOSETS AND STORAGE SPACE

Probably no house was ever designed that had enough storage and closet space, in the most convenient locations, for the accommodation of all of the personal and family effects of its occupants. Modern designers make provisions for storage facilities that were almost unheard of in the houses that were built a decade ago. But there seems an almost universal temptation to underestimate the space that must be set aside to provide a "place for everything". It still behooves the home planner to think carefully on the subject of closets and storage space. The best way to insure adequacy is to think of such space in terms of the things the closets will be expected to accommodate when they are in use.

Closets may be regarded as falling into two classifications, those that are dedicated chiefly, if not entirely, to the use of some individual member of the household, and those that serve as general storage space for the accommodation of family possessions.

Under the first classification come bedroom closets and dressing room storage space. Under the second and more general classification are included hall closets, trunk rooms, linen closets, china and silverware closets, pantry shelves and storage facilities for food supplies.

Some general rules on the subject of closets are worth observing as you check your sketch plans:

The size, shape and arrangement of the closet should make readily accessible all articles which are in frequent use.

A single bedroom closet of the walk-in type for adult use should be no smaller than 34 by 42 inches, with a garment hanger rod 34 inches long placed 63 inches above the floor.

Where possible, 3 inches should be allowed be-

tween hangers, to facilitate hanging or removing garments without disturbing the others.

The shallow closet with double doors, as an alternative to the large, deep closet, is becoming increasingly popular. The minimum depth of this type of closet is about 20 inches, with the garment rod hanging parallel to the door. The length of the garment rod depends on the number of suits or dresses to be accommodated. Three inches of rod for each hanger should be allowed.

The closet should have sufficient natural or artificial light so its contents may easily be seen.

Every closet should be ventilated, if not by a window, by openings in the door.

Deep corners should be avoided in the shallow type of closet.

Two or more narrow doors for a closet are more convenient than a wider door.

Space must always be planned for the out-of-season storage of clothing and bedding.

Such storage can be combined with trunk and luggage storage, provided the floor area of the trunk room is large enough so that trunks used for storage may be readily accessible.

Such a room may also provide for the hanging of winter clothing in mothproof bags, and the storing of other articles in mothproof boxes or wrappings.

In checking bedroom closet facilities, identify each closet by the letter of the bedroom it serves. Check all of the closet features for bedroom A before proceeding to a consideration of bedroom B, and so on, until you have checked the closets required for each bedroom.

th dressing room

Closets and Storage for Individual Use Check List

FITTED WITH:

Mark X Further Consideration Mark / O.K. for Plans

on Plan A	To be used by	Hanging pol Overhead sh Shoe rack
В		Side shelves
C	0	BUILT IN:
D		Drawers
E		Dresser Sliding trays
F	-	LIGHTED
TYPE:		Closet light.
	A B C D E F	Combined w
Shallow with double doors		Room light.
Walk-in closet		Window

Designate

Closets for General Storage Check List

As a final check on the storage facilities your new home will have, go through the following list of ordinary family possessions and be sure that somewhere on your plans a place has been provided for everything on the list that you will have to put away at some time or other.

Mark X Further Consideration Mark / O.K. for Plans

awnings b	aby carriage_	bathroo	m supplies
bicycles a	nd wheel toys_	books_	canned
and preserved for	ood camp	ing equipmen	tcard
table chile	dren's toys	china	_ cleaning
tools and equipm	nent cloth	ning not in us	se fire
wood fishir	ng tackle	furnace fuel.	furni
ture not in use_	furs	games	garden tools
glassware	golf st	icks gu	ests' wraps
guns	gymnasium e	quipment	_ hand lug

gage hand tools hobbies or collections
ironing board kitchen supplies laundry
magazines motion picture projector and film
musical instruments paintings phonograph
records screens sewing machine and supplies
storm windows and doors table silverware
tank gas cylinderstennis racquets and nets
trophies trunks umbrellas wash-
ing machine and ironer wines

THE EXTERIOR

The outward aspect, or the style of your home, must be such that it harmonizes with its surroundings and at the same time corresponds as nearly as possible with your own preference in design. But in this matter it is only frank to say that the owner who is likely to be best satisfied is the one who relies strongly on the recommendations of the architecturally trained man.

Your safest and most satisfactory course will be to indicate to him your own preference in regard to style or period and treatment, leaving their adaptation to your own home up to his skill and judgment.

Remember that your home is growing from the inside out. Modifications of the ideal design, as you picture it, may be necessary if the room requirements and arrangements that you specify are to be faithfully observed. After all, you are building a home primarily to live in, rather than to ornament the landscape.

The more flexible your demands are in respect to exterior treatment, the more precisely suitable the interior can be made.

The Exterior Check List

Mark X Further Consideration Mark / O.K. for Plans

TYPE OF ARCHITECTURE: Bungalow C	ò.
lonial Early American English cotta	ge
French provincial Georgian Itali	an
Modern Monterey Southern C	o-
lonial Spanish	
ROOF: Asbestos shingle asphalt shingle	
built up copper cork insulated shing	gle
painted metal slate tile wo-	od

SIDEWALL SURFACES: Brick brick and stucco
brick and wood clapboard dressed
stone field stone metal panel shingle
stucco stucco and timber wood
panel
FOUNDATION: Concrete brick stone
tile
PORCHES: Back front porte-cochere
side

PRODUCT AND BRAND SELECTOR

Home Owners' Check List III

Of greatest importance in securing the house that you want, is the selection of materials and equipment that most exactly fit your requirements within the limits of your building budget. The manufacturers who have provided these check lists for your use describe many of their products in the Home Owners' Catalogs. The Product and Brand Selector is not intended to urge on you the use of any specific building materials, but you are urged to make use of the information the catalogs provide, to acquaint yourself with all the modern products that are at your disposal.

Before you can specify materials on the basis of a knowledge of their merits, you should become thoroughly acquainted with all the products that modern manufacturing can supply you.

Read the descriptions of the materials available to you. Where you feel the need for further information examine the products you are considering at the manufacturers' or dealers' showrooms. Take this volume with you and after you have made your own selection. put down your first, second and third choice by brand name, selecting for yourself the materials that will combine to provide the most satisfying home, as you envision it. Then, when you have your next meeting with the architect, builder, or contractor, who is supplying you with your technical assistance and advice, talk over their relative merits with him. You will be guided by his advice, to be sure, but inquire closely into the merit of those products that you believe are best suited to your own particular requirements. Knowing what you want, and getting what you know you want is the final triumphant answer to all your home-building questions.

EQUIPMENT FIRST CHOICE SECOND CHOICE AIR CONDITIONING	COMMENTS (Exceptions for rooms requiring special treatment)
AWNINGS	
BATHROOMS—Accessories and Fixtures	
Cabinets	
Glass	
Lavatories	
Mirrors	
Shower bathsShower cabinets	
Toilets	
Tub hanger	1
Tubs	
BRICK	
BUILDING PAPER	
CLOSETS	
Built-in units	
Fixtures	

EQUIPMENT FIRST CHOICE SECOND CHOICE	COMMENTS (Exceptions for rooms requiring special treatment)
CIRCUIT BREAKER	
CURTAINS AND DRAPERIES	
Hardware	
DOORS	
Closet	
Entrance	
French	
Interior	
Screen	
Storm	
DOOR CHIMES	
FANS, VENTILATING	
FENCES	
FINANCING.	
FIREPLACE EQUIPMENT	
Andirons	
Circulating unit	
Dampers	
Grates	
Hoods	
Mantels	
Log hoist	
FLASHING	
FLOOR COVERINGS	
Carpet	
Rugs	
Rug anchors and pads	
FLOORS	
Asphalt tile	
Block	
Concrete	
Cork	
Linoleum	
Parquet	
Plank	

EQUIPMENT	FIRST CHOICE	SECOND CHOICE	COMMENTS (Exceptions for rooms requiring special treatment)
Rubber tile			
FURNITURE			
Porch and lawn			
GARAGE DOORS			
Folding			
Overhead			
Sliding			
Swinging			
Equipment			
GARBAGE RECEIVERS			
GLASS			
Mirrors			
HARDWARE			
Cabinet			
Door			
Garage door			
Window			
HEATING EQUIPMENT			
7			

EQUIPMENT	FIRST CHOICE	SECOND CHOICE	COMMENTS (Exceptions for rooms requiring special treatment)
Gas			special steatment,
Oil			
Humidifiers			
Oil burner			
Radiators			
Radiator covers			
Steam			
Warm air			
HEATING, VENTILATIN	NG AND AIR CONDITION	ONING CONTROLS	
Operating control	•		
INCINERATORS			
INSULATION			
			·
NSURANCE			
KITCHEN EQUIPMENT			
Cabinet tops			
			·
	r		
Sinks			
LANDSCAPING			
Decorative garden			
•			
Pool			

EQUIPMENT	FIRST CHOICE	SECOND CHOICE	COMMENTS (Exceptions for rooms requiring
Trees			special treatment)
Vegetable garden			
Walks			
LATH			
Expanded metal			
Fibre			
Wire			
LAUNDRY EQUIPMEN	T		
_			
LIGHTNING RODS			
LIGHTING FIXTURES			
· · · · · · · · · · · · · · · · · · ·			
			1
LUMBER			
MAIL BOXES			
ORNAMENTAL IRON W	VORK		
PAINT PRODUCTS			
Exterior			
PIPE AND FITTINGS			
Brass			
Copper (or tube)			
Galvanized			
Iron			
REFRIGERATOR			
Electric			
Ice box			+
REFUSE DISPOSAL			
			1
Incinerators			

	EQUIPMENT	FIRST CHOICE	SECOND CHOICE	COMMENTS (Exceptions for rooms requiring special treatment)
RO	OFING		·	aposta tronsact,
A	sbestos shingle			
A	sphalt shingle			
В	uilt-up			
C	opper			
N	Ietal			
	· ·			
T	ile			
SCI	REENS			
- -				
ST	OVE—Kitchen			
STA	AIRS—Disappearing			
VE	NETIAN BLINDS			
WA	ALLS—Exterior			
В	rick			
В	rick veneer			
	•			
G	lass block			
P	Plywood			
S	hingle			
S	iding	•		
S	tone			
S	tucco			
WA	ALLS—Interior			-
C	eramic tile			
F	abric covering			
G	lass tile			
L	inoleum			
N	Marble			
N	letal tile			

EQUIPMENT	FIRST CHOICE S.	ECOND CHOICE	COMMENTS (Exceptions for rooms requiring
Paint			special treatment)
Plaster			
Plastic texture paint			
Plywood			
Tile			
Wallboard			
Wallpaper			
Wood paneling			
Wood veneer			
WATER HEATER			
Combination with heating			
WATER SUPPLY SYSTI	ЕМ		,
WEATHERSTRIPPING _			
WINDOWS			
Basement			
Casement	14-4		
Double hung			
Special			
With rolling screens)		
WINDOW CHADES			
WINDOW SHAVES			
WOODWORK			
	•		
Stairway			
Telephone niche			



Armstrong's LINOLEUM AND LINOWALL

ARMSTRONG CORK COMPANY
Lancaster, Pa.



COLOR, COMFORT, AND CONVENIENCE are featured in this modern, work-saving kitchen planned for a homemaker's pleasure. The easy-to-clean floor is Armstrong's Linoleum No. 0456 with orange, chartreuse, and yellow border, and gray flash type cove and base. Sink and table tops are linoleum-covered. The walls are washable Armstrong's Linowall No. 772.



COVER ILLUSTRATION: There's a hint for your hobby room in this attractive interior . . . and a good example of what can be done with inset designs in plain colors of Armstrong's Linoleum. A list of furnishings in the rooms shown in this book will be sent you free.

Room Planning is easy

WHEN YOU START WITH ARMSTRONG'S LINOLEUM

Many folks who write to us for help on planning attractive rooms seek answers to the same questions on linoleum. Below we've listed the questions that occur most frequently, together with the answers of our decorating experts. We hope this story in quiz form will give you the right start to your color schemes.



ARE LINOLEUM FLOORS EXPENSIVE?

Linoleum floors are only slightly higher in first cost than other fine floors, but they save you money in the long run because they never require expensive refinishing to keep them attractive.

ARE LINOLEUM FLOORS SANITARY AND EASY TO CLEAN?

Yes, see page 5 for details.

HOW LONG WILL A LINOLEUM FLOOR LAST?

Armstrong's Linoleum Floors have been in service fifteen to twenty years or even longer. Improved manufacturing methods should mean even longer life for linoleum being made today. Armstrong's Linoleum is manufactured to specifications even more rigid than U. S. Government standards.

CAN RUGS BE USED WITH LINOLEUM?

Certainly. Linoleum is a flooring, not a floor covering. Rugs should be used with it, as with any other flooring. The handsome colors in a linoleum floor bring out the rich beauty of color in fine rugs. Linoleum can be used without rugs, of course, a feature that makes it desirable where the buying of rugs must be postponed, or when rugs are stored during the hot summer months.

HOW MANY KINDS OF LINOLEUM ARE THERE?

There are seven main types: Plain, Jaspé, Marbelle, Monobelle, Embossed Inlaid, Straight Line Inlaid, and Printed. Some of these are illustrated on pages 8 and 9. Your Armstrong dealer will be glad to show you many other attractive colors and patterns.

WILL THE COLORS WEAR OFF LINOLEUM?

Except in Printed linoleum, the handsome colors run through the full thickness of the composition. Therefore, they will last as long as the linoleum itself.

IN HOW MANY THICKNESSES IS LINOLEUM MADE?

There are five thicknesses: 6 mm. (about $\frac{1}{4}$ -in.); $\frac{3}{6}$ -in.; Heavy ($\frac{1}{8}$ -in.); Medium ($\frac{3}{3}$ 2-in.); and Standard ($\frac{5}{64}$ -in.) gauges. These provide for every floor requirement and every budget.

IS LINOLEUM CORRECT FOR LIVING-ROOMS, DINING-ROOMS, BEDROOMS, ENTRANCE HALLS, AND OTHER ROOMS BESIDES KITCHENS AND BATHROOMS?

Yes, Armstrong's Linoleum is being used for every room in the house by many of the country's leading architects and interior decorators.

ARE LINOLEUM FLOORS IN GOOD TASTE FOR PERIOD ROOMS, SUCH AS SPANISH, EARLY AMERICAN, COLONIAL, ENGLISH, SWEDISH, MODERN, ETC.?

Yes. Properly chosen linoleum floors harmonize with every style of interior decoration.

AREN'T LINOLEUM FLOORS COLD?

Floors tend to assume the temperature of the room. Linoleum is as warm as any other flooring; and because it is practically a one-piece floor, it does not permit drafts to come in through the floor boards. Also, because it is laid over lining felt, linoleum retards the escape of heat into cold basements.

SUPPOSE NONE OF THE STANDARD PATTERNS SUITS ME?

If you cannot make a selection from Armstrong's standard patterns, you can create individualized effects with Armstrong's Custom-Craft design elements. See page 6 for suggestions.

DOES HEAVY FURNITURE DENT LINOLEUM?

Although linoleum is resilient, heavy furniture should always be supported on Armstrong's Furniture Rests, which spread the weight over a greater area. These are sold by most stores handling linoleum.

WHAT IS THE BEST WAY TO INSTALL LINOLEUM?

Over wood subfloors, linoleum should be cemented to a layer of Armstrong's Lining Felt, which in turn is pasted to the wood base. Where water is likely to be spilled, the seams should be protected with Armstrong's Waterproof Cement.

CAN LINOLEUM BE LAID OVER SUSPENDED CONCRETE OR METAL FLOORS?

Yes. The use of Armstrong's Lining Felt over suspended concrete subfloors is optional, but desirable.

ARMSTRONG'S LINOLEUM FLOORS WILL MAKE YOUR FINEST RUGS EVEN MORE ATTRACTIVE



If you wonder whether rugs can be used with a linoleum floor—be assured that it is perfectly proper to do so. By choosing a linoleum floor that is in harmonizing or contrasting colors, you can make any good rug seem considerably more attractive than is possible with other floorings.

WHY IS LINING FELT NECESSARY?

At different seasons of the year, floor boards expand and contract. If the linoleum were cemented direct to these boards, the movement might tear the linoleum or cause it to buckle. Lining felt takes up the movement of the boards and thus protects the linoleum. It also makes the floor warmer, quieter, and more comfortable underfoot.

CAN LINOLEUM BE LAID IN BASEMENTS—OR OVER WOOD OR CONCRETE FLOORS THAT ARE IN DIRECT CONTACT WITH THE GROUND ON GRADE?

Linoleum is not recommended because of the dampness that is likely to be present in such floors. Armstrong's Asphalt Tile is the only type of resilient flooring recommended for these areas.

WILL LINOLEUM CURL AT THE SEAMS AND WILL THE SEAMS BE CONSPICUOUS?

Properly installed linoleum will not curl, and the seams will be practically invisible. Because rolls of linoleum are six feet wide and about ninety feet long, few seams will be necessary when the material is installed in a room of ordinary size.

SHOULD LINOLEUM FLOORS BE INSTALLED WITH BORDERS?

Borders are not essential but they are usually desirable. To make the creation of simple borders inexpensive, Armstrong offers ready-cut border strips and Linostrips in several convenient sizes.

IS LINOLEUM A QUIET FLOORING?

Yes. A resilient linoleum floor is quieter under impact and footsteps than hard flooring.

HOW SHOULD A LINOLEUM FLOOR BE FINISHED AT THE BASE-BOARDS?

Any type of baseboard may be used; but Armstrong's Flash Type Cove and Base is recommended. This device provides an attractive curved joining of the floor and wall, thus preventing dust from collecting and also making sweeping easier. It is offered in colors to harmonize with linoleum and Linowall.

CAN LINOLEUM BE REMOVED AND REUSED?

Yes, if it is pasted over Armstrong's Lining Felt.

CAN I LAY LINOLEUM MYSELF?

We do not recommend it. Linoleum laying requires skill and a large assortment of special tools. It is more economical and more satisfactory to have the work done by an experienced Armstrong merchant, in accordance with standard Armstrong specifications.

CAN LINOLEUM BE BOUGHT DIRECT FROM ARMSTRONG?

No. Armstrong's Linoleum is sold through department and furniture stores, by floor contractors, and in specialty shops. For the names of local merchants, write to Armstrong Cork Company, Floor Division, Lancaster, Pa., or ask your architect or builder.

WHERE CAN MY ARCHITECT OR BUILDER FIND OUT MORE ABOUT ARMSTRONG'S LINOLEUM?

Refer him to Sweet's Architectural Catalog or to the Builder's Supplement of Home Owners' Catalogs. We shall also be glad to mail him additional information on any of our products.

I LIKE LINOLEUM, BUT FOR FINANCIAL REASONS HAVE TO POST-PONE BUYING IT FOR A FEW YEARS. ARE THERE ANY OTHER ARMSTRONG FLOORS LOWER IN COST?

Armstrong offers Linoflor, and Quaker and Standard Rugs and Floor Covering, suitable where utmost economy is essential, or for temporary installation. Although these products are not linoleum, they are smooth surface materials in attractive colors. Your Armstrong dealer will be glad to show them to you.

LINOLEUM FLOORS SAVE HOURS OF HOUSEWORK

Whether you do your own housework or employ servants, an Armstrong's Linoleum Floor will mean more time for other activities. If there are children or pets in the house, you will find that the ease of cleaning linoleum is a doubly welcome feature.

WHAT CARE DOES A LINOLEUM FLOOR REQUIRE?

If a linoleum floor is kept properly waxed with Armstrong's Linogloss Wax, which requires no rubbing, daily dusting will keep it clean and attractive for months. Even in kitchens, a properly waxed linoleum floor requires comparatively few washings.

When washing is necessary, Armstrong's Floor Cleaner will make the work easier because it was specially developed for cleaning linoleum safely and quickly. If spilled things are wiped right up, the number of washings can be considerably reduced.

By using Armstrong's Flash Type Cove and Base to form a rounded joining of floors and walls, you can prevent dust from collecting in corners.

DO LINOLEUM FLOORS HAVE TO BE REFINISHED?

No. Armstrong's Linoleum never requires scraping, sanding, or other costly, troublesome refinishing.

CAN LINOLEUM BE USED AROUND TUBS, SINKS, AND OTHER FIXTURES WHERE WATER IS SPILLED?

Yes. Any seams at these points are made waterproof when the linoleum is being installed. Spilled water should be wiped up as quickly as possible, however.

IS LINOLEUM MORE SANITARY THAN BOARD FLOORS?

Yes. There are no open cracks to collect dust and germs. The lining felt, the tightly cemented seams, and the large unbroken areas of linoleum prevent drafts from rooms below. (This is important where children play on the floor.) Many scientists believe that linoleum acts as a germicide; and many prominent hospitals are large users of linoleum floors.



Now Armstrong offers a complete line of swivel furniture rests, as well as round and square cups. Bearing surfaces of all types are entirely flat, providing maximum protection with minimum size. The dark, neutral brown color also adds to the inconspicuousness of these rests. Your nearest Armstrong merchant can supply you.

Custom - Craft Floors

PLAN NOW TO MAKE YOUR LINOLEUM FLOORS MORE INTERESTING WITH INSET DESIGNS

Any linoleum floor, or any wall covered with Armstrong's Linowall, can be made more attractive by insetting it with Linosets—i. e., decorative designs cut from harmonizing colors of linoleum.

For instance, the linoleum in your reception hall could be inset with your coat-of-arms or monogram.

In nurseries or playrooms, a clever idea is to have silhouettes of interesting figures cut from different colors of linoleum and inset in the floor or Linowall.

In bathrooms, floors or walls can be inset with sailboats, tropical fish, water lilies, mermaids, or other nautical motifs. In upstairs recreation rooms, gameboard floors can be made from various colors of linoleum; in basements, from various colors of asphalt tile.

Armstrong's Ready-Cut Linosets, two of which are shown here, make it possible to use inset designs even where building or remodeling budgets are limited. Any one of these or other handsome Linosets can be installed quickly and inexpensively, by your linoleum merchant.

These designs were created by the Armstrong Bureau of Interior Decoration, which for twenty years has been planning distinctive custom-built linoleum floors.

Below, you will notice a series of inset designs consisting of simple elements—circles, scrolls, petals, and rosettes—arranged in interesting combinations. If you prefer a highly individualized floor, you can combine these and other simple elements into a colorful design that is entirely of your own creation. Your local linoleum merchant will gladly assist you in the preparation of this design. There is a Custom-Craft linoleum floor to fit every interior and every pocketbook.



Ready-Cut Linoset No. 944C (porpoise design on a 12" chartreuse square, installed in Armstrong's No. 03 Marbelle with No. 33 Chartreuse and No. 21 Evergreen.



Ready-Cut Linoset No. 946A (flamingo design on green circle, 18" diameter) installed in a field of No. 09 Marbelle Linoleum with a border of No. 21 Evergreen.



Typical linoleum inset. Field is eggplant; disc is deep rose; scrolls, pearl gray.



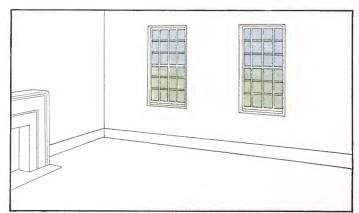
Against pearl gray and fawn diamonds, rosettes are white with dark gray centers.



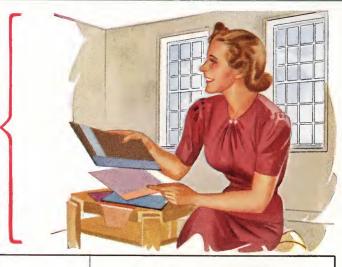
Discs and petals form this inset. Colors are terra cotta, white, and chartreuse.

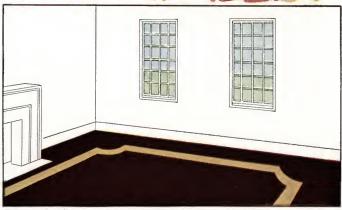
A PICTURE LESSON IN ROOM PLANNING

Here is the professional way to plan a room—from the floor up. After selecting the colors, patterns, and custom-effects you desire in Armstrong's Linoleum, you proceed with wall colors, ceiling effects, wood trim, draperies, and finally to your actual room furnishings. By starting with the floor when planning your decoration, you will find it easy to achieve room harmony.

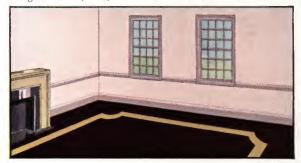


The secret of room planning is to make the floor a definite, colorful part of the picture. Instead of being considered last—or not at all—the floor is the very first thing that an experienced decorator decides to do something about! So, here, we start with a bare room and an uncovered floor.

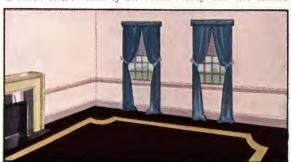




Today, thanks to modern linoleum, it is easy to do something about floors. In the above illustration we've covered our room with an attractive custom floor design achieved with Armstrong's Eggplant Plain Linoleum No. 47 with an attractive band of Fawn Plain Linoleum No 45.



The color scheme for our room is still growing. The walls, the trim, and the fireplace take on color and we begin to get a much clearer idea of the room beauty that lies ahead.



Now we choose draperies for our room and add still more color—yet everything that has been selected harmonizes with the foundation of our color scheme—the linoleum floor.



Now we have our finished room, with complete color harmony achieved through sound, decorative planning. Note particularly how the linoleum floor acts as a foil for the fine fabric rug. It also will provide an attractive allover floor when the rug is stored.

HERE ARE A FEW ARMSTRONG'S LINOLEUM PATTERNS



Willow Green No. 44



Cadet Blue No. 29



Fawn No. 45



Chinese Red No. 39



Marbelle No. 021



Marbelle No. 016



Marbelle No. 013



Marbelle No. 033



Embossed Inlaid Medium Gauge, No. 3420



Embossed Inlaid Medium Gauge, No. 3412



Embossed Inlaid Standard Gauge, No. 5670



Embossed Inlaid Heavy (1/8") Gauge, No. 6310



Embossed Inlaid Standard Gauge, No. 5662



Embossed Inlaid Standard Gauge, No. 5352

SEE OTHER DESIGNS AT YOUR MERCHANT'S STORE



Rust Jaspé No. 10



Apple Green Jaspé No. 011



Tan Jaspé No. 9



Azure Blue Jaspé No. 6



Monobelle No. 046



Monobelle No. 041



Monobelle No. 042



Monobelle No. 040



Straight Line Inlaid Standard Gauge, No. 0375



Straight Line Inlaid Standard Gauge, No. 0437



Straight Line Inlaid Standard Gauge, No. 0456



Straight Line Inlaid Medium Gauge, No. 14252



Straight Line Inlaid Heavy (1/8") Gauge, No. 690



Straight Line Inlaid Medium Gauge No. 14292

Soilproof Linowall

WHAT IS LINOWALL?

Linowall is a new, linoleum-like wall covering having many of the characteristics of Armstrong's Linoleum. It is a flexible material made by keying a smooth facing of inlaid linoleum composition to a strong, specially prepared fabric backing. It is available in continuous rolls of two widths—36" and 72". The six-foot width assures a minimum of seams.



IS LINOWALL EASY TO CLEAN?

Since it is just as washable as linoleum, Linowall is remarkably easy to clean. Its special lacquer finish prevents ordinary staining from oil, grease, water, smoke, or ink. All that is necessary to keep Linowall in prime condition is to wipe it off from time to time with a damp cloth. In those cases where grease or stubborn finger marks are encountered, it is sometimes necessary to use soap and water or a diluted solution of Armstrong's Floor Cleaner. Under no circumstances should Linowall be waxed or varnished.

HOW LONG WILL LINOWALL LAST?

Linowall is a truly permanent wall covering. Unless damaged by fire or harsh cleaners, or willfully defaced it never has to be replaced. It does not crack or chip when bumped by furniture. It withstands moderate settling of walls without cracking or buckling. No refinishing is ever required.

WHY IS LINOWALL MORE DURABLE THAN THE AVERAGE MARBLE, WOOD, AND TILE SUBSTITUTE?

The pleasing colors of Linowall are not merely on the surface, but extend clear through to the fabric backing. The facing of Linowall is approximately 1/16" thick; whereas many tile and marble substitutes have only a surface finish not more than a few thousandths of an inch in thickness. Therefore, Linowall has much more inherent durability and will retain its original beauty indefinitely. For this reason, it is also widely used in offices, stores, schools, and hospitals where durability is of prime importance.

IS LINOWALL EXPENSIVE?

Relatively, no. It is true that Linowall costs more than paint and wallpaper, but these are semi-permanent finishes that have to be renewed from time to time. Linowall is permanent—it affords a lifetime job. The first cost is the last cost. Compared with other permanent materials, Linowall is inexpensive. It will average about one half the cost of hard tile and about one third the cost of structural glass. Generally, it costs no more than the so-called tile and marble substitutes, which are not nearly so desirable.

This breath-taking beauty spot has a floor of No. 025 Marbelle Linoleum with a border of Midnight Blue No. 30, and scalloped band of Oriental, Blue No. 43. Walls are Linowall No. 731, inset with a simple but unusually effective design in blue linoleum.

IS LINOWALL WATERPROOF AND SUITABLE FOR BATHROOMS, KITCHENS, LAUNDRIES, ETC.?

Linowall is thoroughly moistureproof and is not affected by steam, hot or cold water, or any surface moisture, when the seams have been waterproofed in accordance with Armstrong specifications. Therefore, Linowall can be used over built-in tubs equipped with showers, and in kitchens and laundries. For several reasons, Linowall is not recommended for stall (enclosed) showers.

WHERE ELSE CAN LINOWALL BE USED?

Linowall is appropriate for many rooms in the house. It can be used to decorate nurseries, living-rooms, dining-rooms, reception halls, recreation rooms, and powder rooms.

CAN LINOWALL BE INSTALLED IN BASEMENTS?

Linowall should not be cemented directly to basement walls that are in direct contact with the ground. All walls in contact with the ground will transmit moisture, which will affect the bond of any known cement, even the best waterproof varieties. In basements, it is frequently possible to fur out from the foundation walls with studs and erect over these a false wall of approved building boards. This construction provides an air space behind the false wall,

so that the moisture transmitted by the foundation can be evaporated before reaching the Linowall. The opinion of an architect or a competent contractor should be secured before attempting construction of this nature. Conditions in some basements are such that even construction of this type will not be successful.

CAN LINOWALL BE APPLIED TO CEILINGS?

Yes. Linowall can be successfully applied to ceilings without special construction or preparation. All that is required is ordinary sound plaster with the white coat well bonded. The use of Linowall on ceilings is growing steadily. A particularly attractive job can be made by coving the Linowall from the side walls onto the ceiling.

DO TEMPERATURE AND HUMIDITY CHANGES AFFECT LINOWALL?

No. Linowall is rendering satisfactory service in every state in the Union, from the coldest to the hottest and most humid locations. As long as the walls to which the Linowall is applied do not transmit moisture from the rear, changes of temperature and humidity, even to extreme degrees, will not affect the material. Linowall has afforded satisfactory service in instances where the temperature reached a high of 110°. It has been just as satisfactory



Armstrong's Linowall Yellow No. 750



Armstrong's Linowall Blue No. 751



Armstrong's Linowall Ivory No. 752



Armstrong's Linowall Rose No. 754



Armstrong's Linowall Green No. 753



Armstrong's Linowall Sienna Red No. 710



Armstrong's Linowall Mountain Blue No. 711



Armstrong's Linowall Verde Antique No. 709

in homes where for long periods there has been no heat in the house and the temperature dropped to zero or lower.

IN HOW MANY COLORS IS LINOWALL AVAILABLE?

Linowall is available in 30 patterns. These include a variety of colors and interesting textures, such as marble, tile, wood, the very new and exclusive burled effects, and also the popular plain pastel shades.

CAN THE COLOR SCHEME OF A ROOM DEC-ORATED WITH LINOWALL BE CHANGED?

Yes, particularly if a neutral shade of Linowall has been installed. By repainting the woodwork, such as the doors, window frames, baseboards, etc., and, in the case of kitchens, the cabinetwork, and by changing the draperies, the entire aspect of a room will be changed to the extent that it will not appear to be the same interior.

ARE EXCLUSIVE DESIGNS POSSIBLE WITH LINOWALL?

Yes. Many unusual and exclusive effects can be created with Linowall. It is possible, at moderate cost, to inlay Linowall with other colors of Linowall, linoleum, and Custom-Craft Linosets (see designs, page 6), in a host of special designs. It is even possible to inlay Linowall with metal

and glass. Customers, therefore, can have monograms or other special designs which they may fancy. The Armstrong Bureau of Interior Decoration will be glad to work with your store in preparing such designs.

ARE STREAMLINED CORNERS POSSIBLE WITH LINOWALL?

Yes. Its flexibility permits it to be formed, without seams, around inside or outside corners. Rounded corners are modern, decorative, and easy to clean. Wherever seams are necessary, they can be made practically invisible.

MUST WALLS THAT ARE TO BE COVERED WITH LINOWALL BE OF SPECIAL OR EXPENSIVE CONSTRUCTION?

No. Linowall does not require a better wall than is usually provided for paint, wallpaper, or other semi-

permanent finishes. Ordinary sound, dry plaster with a smooth, well-bonded white coat is all that is necessary for the installation of Linowall. Certain approved building boards can be used under some circumstances.

HOW IS LINOWALL INSTALLED?

Linowall is installed by cementing it to the wall with

Armstrong's Linowall Paste. All seams subjected to excessive moisture are sealed with a special waterproof cement.

CAN LINOWALL BE APPLIED TO OLD WALLS?

Linowall can be applied successfully to old walls of the proper type. Even though the plaster may be cracked, as long as it is sound (not crumbly) and firmly keyed to the lath, the cracks can be readily filled with patching plaster.

MUST OLD WALLPAPER AND OTHER COVERINGS BE REMOVED PRIOR TO THE INSTALLATION OF LINOWALL?

Yes. All coverings, such as old wallpaper, painted muslin, etc., must be removed. This, however, is often advisable or necessary, even when a cheap, semi-permanent finish such as wallpaper is to be installed, if a thoroughly satisfactory job is desired. Oil paint or enamel need not be removed, but must

be thoroughly sanded to roughen the surface, in order to provide a "tooth" for the adhesive.

WHERE CAN I BUY LINOWALL?

Linowall is sold and installed by department stores, furniture stores, flooring contractors, and specialty shops. Linowall is not sold direct to the user. Write for names of local Linowall merchants.

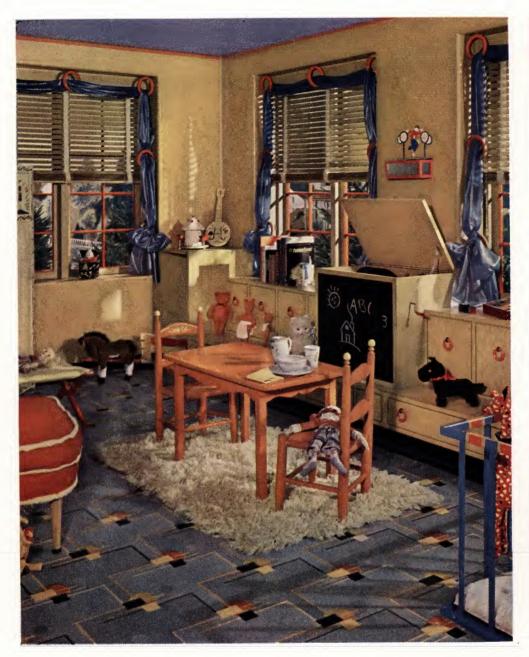
WHERE CAN MY ARCHITECT OR BUILDER FIND OUT MORE ABOUT INSTALLING LINOWALL?

Tell him that Linowall is described in *Sweet's Architectural Catalog* or in the Builders' Supplement of *Home Owners' Catalogs*. If you care to send us the name of your local architect or builder, we shall be very glad to furnish him with specifications.



With Armstrong's Linowall, smart decorative insets like the one above can be produced at moderate cost by any good craftsman. This flexible, resilient linoleum-like composition can be inlaid or appliqued with glass, metal, carved wood, or carved linoleum designs.





Armstrong's Linowall Pine No. 735



Armstrong's Linowall Peach No. 705



Armstrong's Linowall Walnut No. 736

THIS SUN PORCH PLAY-ROOM is sunny even on rainy days, thanks to its bright and cheerful interior. The soil-proof walls are Armstrong's Pine Linowall with a feature strip of orange linoleum. The playproof floor is Armstrong's Embossed Linoleum No. 5651 with flash type cove and base. Linowall is ideal for children's rooms because it is truly washable with soap and water.



Armstrong's Linowall Ivory No. 704

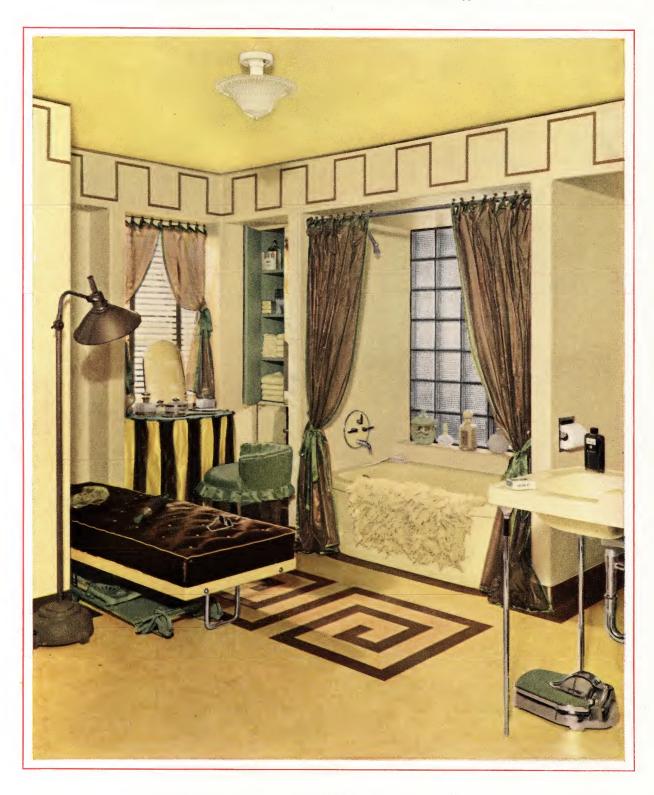


Armstrong's Linowall Travertine No. 702



Armstrong's Linowall Black No. 703

WHO WOULDN'T SING in this bathroom, carefully planned in every detail for beauty, comfort, and convenience? The beauty treatment began with an Armstrong's Linoleum Floor—Marbelle No. 031 inset with a special design in brown. The washable walls are Armstrong's Linowall No. 708 also inset with brown linoleum to match the floor design. Note how walls and floor are joined with a rounded, easy-to-clean brown flash type cove and base.





COLOR AND DIGNITY are combined in appetizing portions to make this Swedish dining-room a joy to enter. The rich burgundy floor of Armstrong's Embossed Inlaid Linoleum No. 6284 is set off attractively with a plain eggplant border. Note how the white walls of Armstrong's Temlok De Luxe are cleverly accented with blue feature strips to blend with the blue window trim, ceiling, and upholstery.







ARMSTRONG BUILDING PRODUCTS

Floors

LINOLEUM
LINOFLOR
MASTIC ARMOFLOR
QUAKER RUGS

QUAKER FLOOR COVERING

STANDARD RUGS
STANDARD FLOOR COVERING
ASPHALT TILE
LINOTILE (Oil-Bonded)

RUBBER TILE

Monocork

Wall Finishes
Linowall

CORK TILE

CORK CARPET

CORK TILE
TEMLOK DE LUXE
INTERIOR FINISH
TEMWOOD
BLOCKED TEMWOOD
TEMBOARD

Temboard De Luxe

Insulation
Corkboard
Tembeal Insulating Sheathing
Temlok Insulating Lath
Acoustical Materials
Corkoustic

ARMSTRONG CORK COMPANY . FLOOR DIVISION . LANCASTER, PA.

No. F-134-340

PRINTED IN UNITED STATES OF AMERICA

Burnham
Home Heating Helps
told in a
friendly
way

Burnham Boiler Corporation



The triendly way we will help you with your Heating

IN THE FIRST PLACE, let's forget all technical talk. Let's have no discussions about "impinging fire surfaces" and all that sort of silly lingo.

Let's just sort of sit down together, as you would with one of your neighbors who dropped in for an evening, and chat as you then would if the talk turned to heating.

When you consider that for a large portion of the year, so much of your home's comfort depends on the heating, its importance among *first* considerations is obvious. Yet so many actually leave it until the *last*.

You may get accustomed to the shortcomings of ineffective heating, but your friends and guests don't. You may get over grouching about your fuel bill, but the cause is there just the same.

It is, year after year, costing you more than it need. You are actually spending a certain amount of your money for which you get no returns. Which wouldn't you say, is the same as throwing it away?

So don't compromise with your heating. Skimp other places if you must, but have your heating right, so you can have both contentment of mind and comfort of body.

You will find this book is a friendly help. Anything not covered that you want to know about, don't hesitate to write us. You will get a prompt answer. Furthermore you will find us friendly, pleasant people. A point you will appreciate.

Some triendly suggestions as to ways of keeping down Heating Costs

that merely keeping down the cost of your heating does not mean you are keeping down heating costs.

Let us explain. The cost of your heating is what the outfit costs complete to put in. The heating cost, is what it cost to put in, plus what it keeps on costing, day after day to run it. Suggest reading that over.

Here is how it works. Generally speaking the cost of the heating averages around 9½ percent of the total cost of your home.

If, however, to save a few dollars at the start, by skimping a bit here and there on size of your radiators; or allow yourself to be convinced that a smaller boiler will do the work, than the figures show is needed, your heating costs are always going to be too high.

Not only too high, but you won't get the heat comfort you want and have a right to

have. It means forever forcing and pushing the boiler. When you do that, an excessive amount of heat is sent up the chimney instead of into your radiators.

Even if that heat didn't go up the chimney, a radiator of a certain size can do only so much heating in a given time. You can't get a quart out of a pint bottle. So it all means you must not only run your boiler harder, but keep it burning full blast longer.

You may save a few first dollars in consenting to skimp your radiation or your boiler, but you will pay for that saving over and over, by the extra fuel you must burn, and still not have the cosy comfort heat you have a right to have. Such crowding of your boiler also shortens its life.

So save your money and insure your contentment by having plenty of radiation and an ample size boiler. Don't let anybody talk you out of it. Be firm on that.



It's funny the way some men have of blaming their wives, for what they are to blame themselves. They will insist on having all the say about selecting the heating, and then grouch to her if it isn't satisfactory.



Now let's get Systems Out of our System

ALK TO MOST OF YOUR FRIENDS about how best to heat your house and what happens? Some will mention this or that system. Others dwell on the fuel and talk the advantages of oil over coal, and gas over oil. The next one you ask is "all het up" on the advantages of having a stoker and using cheap fuel. And so it goes.

A surprising few seem to consider of much importance what goes to make up one system, or another. Or the best boiler for your particular needs.

Of first importance to you, is what kind of an outfit is best adapted to your needs and pocketbook. It is both the starting and the stopping point so far as you are concerned.

Of course, for one reason or another, you may prefer steam over hot water. But what you may like, doesn't prove it is the best for your home, all things considered.

In any event, the heart of any heating system; and the efficiency of burning any fuel, *largely lies with the boiler*. Therefore, start right, right at the start, with the right boiler.

Naturally every boiler maker claims his is the best. But it is just common sense that all of them can't be best. Some one of them, however, is the best one for your needs and pocketbook.

We believe it is a Burnham. We know there is a Burnham for every need and pocketbook, and we know how effectively Burnhams give you cosy comfort heat. We have been making Burnhams since 1873.

Then let's Systematically look into the Systems

HERE ARE FOUR MAIN SYSTEMS, the heart of which is a boiler. Let's look into the points of each and see if we can't help you to make a selection of the one system best adapted to your particular needs and pocketbook.

1. STEAM

Lowest in cost of installation. Quick to respond. Quick to heat. Costs less than water because of one line, instead of two, of pipe that most hot water systems require. Because of high temperature of steam, radiators can be smaller than for water.

Steam's limitations are, that unless you have it equipped with the right kind of venting valves on the mains and radiators, you won't get a bit of heat until the water is at boiling point and steam pressure is produced. Below that point you burn fuel without any return.

That's why so many steam heated homes, become so quickly chilly when the heat is shut off. There is no hold over heat in the radiators.

2. VAPOR-STEAM COMBINATION

By this combination, we mean a one pipe steam system, the mains and radiators of which are fully equipped with automatic air venting valves. Not the usual kind, but Burnham's that not only let the air out, but prevent its returning.

That means, the air pressure in the system will be so reduced, that the boiling point of the water is lowered, and the hot vapor will circulate freely before there is any actual steam.

You get heat several degrees before the boiling point is reached. With but a moderate fire, radiators will keep continuously hot.

These Burnham let-out-keep-out air valves, do cost a bit, but will pay for themselves the first season in actual fuel saved. They are sure enough your thrift friends.

3. VACUUM STEAM

This is sort of a glorified steam system, having both flow and return pipes, as with hot water. It is equipped with special valves and steam traps which preserve a partial vacuum in the entire system. Sometimes on the larger installations vacuum pumps are used.

The boiling point of the water, because of the reduced air pressure, is greatly lowered, and the hot vapor circulates unhindered. Each radiator is equipped with a handy valve, giving a graduated control of the heat. Also a steam trap to keep heat in the radiators.

Its cost is higher than the other systems, but the convenience of control, comfort assured, and fuel saved, some feel warrant it.

4. HOT WATER

The minute there is any heat in the water, that minute it starts circulating, and you get heat from the radiators. It is a delightful low temperature heat.

The ordinary gravity hot water system is a bit slow to respond. But that can be successfully overcome by use of a noiseless, electric pump which speeds up the circulation, making hot water heat practically as flexible as steam. Because of the water averaging not above 180 degrees, the radiators must be larger to give an equivalent heating surface to that of steam at 212.

Each radiator has two pipes—one to bring the hot water from the boiler to the radiators; the other to take the cooled water back.

Of late however, there have been such great improvements made, that now you can have automatic hot water heat, with only the one pipe, same as for steam.

It's accomplished by using the circulator mentioned a moment ago. In addition, every radiator is connected to a wizard like Venturi Fitting. It's an odd looking little affair, that in a sort of magic noiseless way, does the work of a pump. It speeds up the circulation of water through each radiator. That means much quicker and more uniform heating.

There's nothing about that Venturi Fitting to wear out. Has no moving parts, springs or valves. Works on an old principle discovered way back years ago, and now being applied extensively.

With our 40% less room taking Slenderized radiators, you can now have hot water heat, taking no larger radiators than used to be used for steam.

Bear in mind that this one pipe system is for use with automatic heat, using oil, gas or stoker fired coal and thermostatically controlled.

5. UNIT AIR CONDITIONING

Any of these four systems can in a very simple, low-cost way, be made a complete winter air conditioning system. It can be done just as effectively with any existing radiator system as for a new one. You'll find all you need to know about it on pages 16 and 17.



At this point

Consider Automatic Heat . . It's so well worth considering



This is the thermostat. You set it at whatever temperature you want, and it does the rest. Does it day and night. Just set it, and forget it. But it will never forget. Never goes to sleep.

F FOR NO OTHER REASON, than making sure of contentment of mind and comfort of body, automatic heat is worth its price to you.

It certainly does effectually take the fuss and cuss out of heating your home.

Perhaps a better name for it might be "Magic Heat", for it is almost uncanny the way an innocent little box affair called a thermostat, conveniently located on the wall, can take the whole bother of heat watching off your hands.

You set it at the temperature you want, and it does the rest.

Automatic heat is a positive success with gas, oil, or stoker-fired coal. It costs no more in the end than other heats, that do so much less for you. Costs no more, because you get so much more 24-hours-a-day comfort out of it.

Another thing distinctly in its favor, is that you can have all year around hot water for your kitchen and bath from the one boiler.

Does away entirely with the need of a separate hot water heater.

It's an exclusive advantage however to be had only with radiator heating. It's not possible with any warm air system.

Gas is the most completely automatic of all, because after the supply pipe is connected, you give it no further thought.

Your oil distributors will fill oil tank and see that it is kept full at all times, relieving you of even that one last bother.

In some sections, by using a stoker, you can save considerable on your fuel costs, as it will burn a low cost coal.

As far as we are concerned, Burnham make boilers, each designed to best burn any of the three fuels.

So again it simmers down, to selecting the fuel and the Burnham which best meets your particular needs and pocketbook.

If you can, by all means put in some one of the three automatic heats. You will then be assured of carefreeness and an absolute contentment of mind and comfort of body.

Now let us look into The Fuels that are the best for you

GAS

Gas is the most fully automatic of all fuels. No bin or tank to fill. No ashes. No odors. Where natural gas is available and in many localities where there is a low gas rate for heating, the cost is not at all excessive. After the pipes are connected you can forget everything. The thermostat and other automatic devices do the rest.

OIL

So far as convenience and freedom from all care is concerned, oil comes next to gas for automatic heating. All you need to remember, is to keep an eye on the oil supply. Even that, in some localities, is taken care of by the oil concerns. All standard makes of oil burners are now so highly perfected, you can't go wrong on oil heat. But it is important to have the right boiler. Our new all fuel Yello-Jacket "that stings the fuel bill", gives a highly satisfactory result with oil. See page 20 for description and illustrations of this truly remarkable boiler. We have a catalog devoted especially to this fuel stinging boiler. Send for it.

COAL

In some instances coal has it all over both gas and oil so far as cost is concerned. But its bugaboo always was the necessity of hand shoveling it into the boiler, and the temper-testing taking out of the ashes. But the automatic stokers have now taken care of that to the queen's taste. They automatically feed the coal to the fire from either your bin or a hopper. The ashes are at the same time deposited in dust-tight cans for easy removal. You can use a low price fuel, generally making a considerable saving. With stoker firing you can have automatic heating of your hot water supply, during both summer and winter, the same as with gas or oil. The Burnham coal boilers, because of their extra long fire travel, are highly satisfactory with either hand or stoker firing. It's that long fire travel that makes their short fuel bill.

As for the comparative cost of oil, gas and coal, you can readily see all depends on conditions where you live.



Then arises that little-big question of Radiators

HAPPILY for you the day is past when radiators have to be ugly, stick-out-in-the-room objectionables. Made the Burnham Slenderized way, you only feel the comfort they give and scarcely notice their existence.

So narrow are they—Slenderized describes them—that you can recess them between the uprights in the wall and they will not be in the room at all.

The surprising thing is, that small as these slenderized radiators are (40% smaller) they actually heat 40% quicker.

Take this room pictured below. It used to have one of those "mountains of iron" kind of radiators and seldom was comfortable.

It was replaced by one of our Slenderized Radiators of the same capacity, placed under the window between two bookcases. Over it is a handy shelf. The woodwork is natural color, shellac-finished, rubbed to a dull glow. The radiator was painted with a thin wash of brown, toning in perfectly. In the photograph naturally the radiator shows up more than it actually does, because we took it that way on purpose.

Here's something of greatest importance. The room now not only heats perfectly but with a surprising quickness. And another thing, these Slenderized Radiators of ours give you both *radiant* and *convected* heat. An important thing if you want quick, economical results.



Here is one of the many sorts of things you can do with the Slenderized Radiator. How attractively it tucks away under the window shelf. These radiators are made in various sizes and shapes "to fit places".



Left, What an eye-sore is that wide ugly looking oldtime radiator in this carefully designed Colonial hall. How conspicuous and entirely "out of keeping".

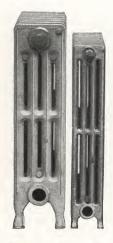
Right, Finally the owner revolted and "yanked out" the old radiator, cut a recess and put in one of the new Burnham Slenderized Radiators which is flush to the face of the wall. Does not stick out at all into the hall. What a difference!





OPEN FRONT RECESSED RADIATOR

The Slenderized Radiator being only $4\frac{7}{16}$ inches deep, a recess space can be made between the studding under the window, and the radiator set in it entirely out of the way. So good looking is this radiator, it is being used extensively without panel front or grille.



THE OLD AND THE NEW

The Slenderized one at the right is 40% smaller, still it heats 40% quicker. Besides it's more attractive in its chaste design. And that's important.



RECESSED WITH RADIANT PANEL FRONT

The Slenderized Radiator can be used with the Burnham Radiant front panel. The lower portion of the panel is entirely open and the radiator itself acts as the grille, giving off radiant heat. The grille at the top gives you convected heat, which is an ideal combination giving quicker heating results.

IT'S CONCLUSIVE

Burnham Slenderized Radiators will do for you. Although so much smaller, they are far more efficient than the big ugly ones, that are so utterly impossible in present day homes. The new good-looking Burnhams cost practically the same as the old ugly ones. Think of that.

Just a word more. The old-time radiators stick out in the room 10 to 12 inches. The Burnham Slenderized ones, no further than your forefinger is long. And let us say again, that in a recess space of $4\frac{1}{2}$ inches between the studding under your windows, the Slenderized Radiator will fit in entirely out of the way. Its front will be flush with your walls. So finely designed and finished are they, that you need no grille in front of them. They are their own grilles. And another thing. These Slenderized Radiators so recessed are highly efficient. Don't let anyone tell you otherwise.



ABOVE PHOTO

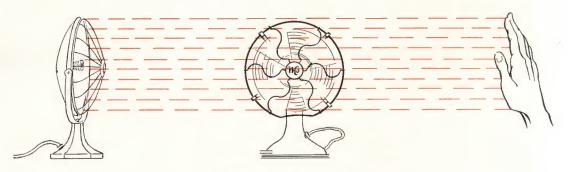
If you were not actually looking for the radiator in this room, you just wouldn't know it was there. When you did discover it, you would have the impression not of a radiator, but an unobtrusive, carefully designed grille. Such is what can be accomplished with Burnham Slenderized Radiators.

PHOTO AT LEFT

This photo shows the way the old type radiators stick out. This one in a bed room is actually a foot deep, besides setting out two inches from the wall. That makes 14 inches into the room. Yet it is no larger than the usual style of radiator has to be. You would scarcely have noticed it, if it had been a Burnham Slenderized.



Why it's important to heat with Radiators giving you Both Radiant and Convected Heat



Prove It Yourself

Just to prove to yourself that radiant heat travels in straight lines and is not the least influenced by drafts, try this experiment. Take an electric bowltype heater such as are so often used in bathrooms. It gives off only radiant or straight-line heat. Now about two feet away place an electric fan so that

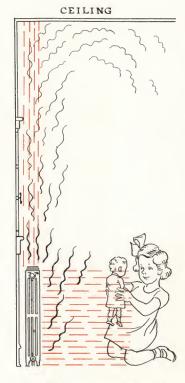
the breeze will blow directly across the path of the radiant heat from the bowl. Hold your hand as shown above. You will find that no matter whether the fan is going or not, you feel the same amount of heat on your hand.

sn't it so, that just because those words convected and radiant sound so sort of technical like, that mostly folks haven't bothered to know how important they are?

But they are important, and really not at all technical. Here is just a plain every day explanation of them.

RADIANT HEAT travels in straight lines. For instance, the radiant heat from a radiator does absolutely no heating of the air through which it passes. It must first strike something like a chair, table, the wall or yourself, and be reflected before it does any heating. Radiant heat rays are not affected by drafts or air currents in the room. These sun-like rays travel straight through. It is exactly the same brand of heat that the sun gives off. The air through which it passes is not heated in the least. That is proven by the fact that the higher you get in the mountains, or away from the earth in an aeroplane, the colder it is. Naturally it would seem that being nearer the sun it should be warmer. It is because the sun's radiant rays heat the earth only when they strike it and are reflected back.

Convected Heat is entirely different. Let's go back to the radiator for an example. It gives off radiant heat in straight lines. It also heats by convection. That means it directly heats the air that comes in contact with and rubs against the surface of the radiator.



Both Heats at Work

This sketch shows you in red lines how the radiant heat from a radiator travels. The black lines show the action of the convected heat. It is the combination of them both, that makes Burnham radiator heating systems so much quicker and more economical than any others.

The minute the air is heated, it starts to rise in a more or less circulatory or wavelike manner.

Because it first rises towards the ceiling, not until the air up there is the same temperature as the heat itself, does it start coming down to do its job of heating the lower parts of the room.

So you now at once see, that while the radiant straight line heat from the radiator has been warming up the walls and lower parts of the room by reflection, the convected heat has been heating the upper parts by circulation.

Both finally come together. It is obvious that when you have the combination of both these heats, given off by radiators, you get far quicker heating results.

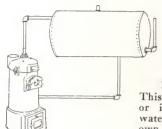
Warm air systems give you only convected heat, which works from top of room down.

Radiators heat from both the bottom and the top, and meet in the middle, so to speak. That's why they give you such quick heating.

It's at the windows that the cold air comes into a room. With radiators you can locate them under the windows. Then the cold air filtering in is heated before it circulates in the room. That's why with a Burnham radiator system you can sit by a window with such contented comfort.

Of next importance is HOT WATER

How to keep out of it by Keeping in it

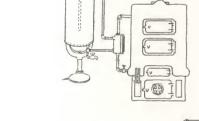


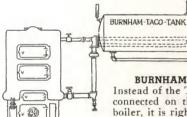
SEPARATE EQUIPMENT

This is the separate or independent hot water supply with its own boiler for heating the tank. It generally burns coal.

OUTSIDE TACO

Here the Taco hot water heater is on the outside of the boiler and connected to both it and the tank.





BURNHAM TACO-TANK

Instead of the Taco heater being connected on the outside of the boiler, it is right on the inside of the tank itself, with pipes coming from the boiler to the Taco heater. Gives particularly high efficiency.



BURNHAM TANKLESS TACO

The Tankless is filled with numerous copper coils, which instantaneously heats the water as drawn direct from it. No storage tank needed. Can be connected on outside of any boiler. The Burnham Yello-Jacket Boiler is shown with the tankless coils being slipped inside. It was the first cast iron and the only small house boiler to have a completely Biltin Tankless.

EXT TO POOR COFFEE AND COLD SOUP, what is more exasperating than the failure to have enough hot water, when you want it? It has doubtless caused more grouching than anything else about "living home".

Of course, to have good coffee you must first start with enough coffee; you know that's just good sense.

By the same token, if you would make sure of having enough hot water, you must first see that your supply source is large enough. So don't skimp on it to save a dollar or two.

Then make doubly sure your way of heating it will do the job you want done.

It is a funny thing, that important as hot water is in every home, so many folks will, for instance, cut costs on the equipment by cutting down on size of tank, or skimping on size of the heating part.

Cut down on the size of your pet closet, but whatever you do, see to it you will have all the hot water you need. Not only have it at certain times — but *all* the time.

Below are described the four different ways to make sure of having it all the time.

1. INDEPENDENT HEATER

Have a Burnham hot water supply boiler connected directly to the supply tank. It is surprising how little fuel they burn and how much hot water they give.

2. OUTSIDE INDIRECT HEATER

This is a copper coil, enclosed in a cast iron casing, through which the water from the boiler circulates. The coil portion is directly connected to the supply tank, heating it. This Indirect Heater can be connected to the outside of any boiler and it will give highly satisfactory results. You can get these Taco Indirect Heaters from us.

3. BURNHAM-TACO TANK

The copper coil heater and tank are combined in one. It is connected directly to the boiler. One of the most economical and satisfactory methods.

4. BURNHAM TANKLESS TACO HEATER

No storage tank is needed. The Taco instantaneously heats the water as drawn. This Tankless can be attached to the outside of any boiler. Our Yello-Jacket has it built inside. It's a direct part of the boiler.

5. BURNHAM-TACO BILT-IN WATER HEATERS

Both our cast iron and steel Oil Boilers have Taco Heaters built right into the Boiler for year 'round supply of piping hot water for Bath, Kitchen, and Laundry.

6. BURNHAM-TACO HEADER HEATER

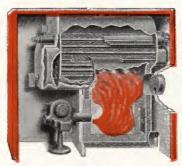
Is used with our Conversion Boilers for Summer-Winter Hot Water. It is connected to all the sections just below the waterline where the water is hottest. It is an ideal fix.

Just a Word About the Oil Burning

STEEL BOILER



This photograph of the complete boiler shows you the neat and trim lines of the jacket. Pleasing, wouldn't you say?



We took one side of the jacket off and cut open the boiler to get this picture. Notice the two passes of tubes, the copper coil, Taco Water Heater located in the hottest place at the top, also that the water in the boiler extends clear under and around the combustion chamber.

or THOSE WHO prefer steel boilers we have a specially designed Steel Oil-Burning Boiler of the efficient "Scotch Marine Type."

It is an unusually economical and attractive boiler, completely welded into one strong compact unit and enclosed in a good-looking two-tone red and grey jacket.

Everything is enclosed within the jacket, even the oil burner itself, so there is very little, if any, possibility of anyone tampering with the controls.

Everything being enclosed, any slight mechanical noises are hushed to an almost inaudible whisper. Quiet operation is assured.

Because of the extra heavy layers of insulation which surround the boiler, very little heat is radiated through the jacket — one of its distinct economy features.

This Steel Boiler is designed for any gun or pressure-type of oil burner you may prefer. This is an added advantage as it is possible for you to select an oil burner sold and serviced by a local dealer.

As is the case with our Cast Iron Oil-Burning Boiler, the Steel Boiler is furnished complete with a genuine Built-In Taco Water Heater for year 'round domestic hot water supply. It is also provided with and for all modern safety devices to assure safe and dependable operation.

Some Helpful Suggestions on Selecting the Best Boiler for Burning Oil

HEN oil burners were first being perfected for home heating, the leading concerns used Burnham regular coal boilers practically exclusively, for oil demonstration purposes.

They did it, because of both the Burnham economy and their long fire travel, which hushed so much of the roaring noise of the flame.

In those days, there was no such thing as a boiler designed exclusively to burn oil. So all burners were attached on the outside of the boiler.

There is no doubt about the very definite fuel economy in our specially designed De Luxe Oil Burning Burnham Boiler. It is also attractive looking with its smart jacket. There are certain advantages in having everything built in and out of sight.

Some, however, feel that if a time should come when the cost of oil might be such that they would save money by going back to coal, they want to be able to do it. And the point is a good one.

Many people instruct their heating contractor, even though they intend burning oil, to install a coal burning boiler and keep the extra parts on hand for use of coal any time they want to change. It's a good idea.

You see, we are in an entirely unprejudiced position in the matter, as we make both types of boilers. It doesn't matter to us which you buy. So our main interest is to help you get the boiler best adapted to your particular needs and individual pocketbook.

We have a most interesting catalog on the De Luxe Burnham Oil Burning Boiler which we would be happy to send you. We suggest your sending for it.

The Yello-Jacket boiler on pages 20 and 21 is adaptable to burning coal, oil or gas. It is easily converted from one to the other.

On page 24 are some pertinent questions and answers on the things you should know about heating with oil. Suggest you carefully read them.



Everything about this Burnham De Luxe Oil Burning Boiler is built in. The jacket is as sleek and clean as a greyhound. Even the Taco hot water heater is built in. The jacket is pleasing in design. Finished in a two tone neutral grey.

How the BURNHAM AUTOMATIC HEAT

Furnishes you Hot Water both Winter and Summer



Built-In Taco Hot Water Heater

As a direct part of our Oil Boiler and built right into it is a Taco coil for supplying your kitchen, laundry and bathrooms with hot water. It's located at the hottest place in the boiler, insuring quick, economical heating.

Burnham Boilers burning gas, oil or coal, that are automatically controlled. It used to be that only gas and oil fuels could be fully automatic. But now that stokers have been perfected for home heating, coal also can be automatic.

One of the strong economy points and great conveniences of Burnham automatic heat, is that it furnishes you plenty of hot water in the Summer, as well as in Winter. Your boiler is never idle. This is the way it is done.

For the Summer, the burner or the stoker is controlled by an Aquastat. You set it at say 180 degrees. Whenever enough water is drawn from your hot water supply to lower the temperature, the Aquastat turns on the fire. Soon as the water is again up to the temperature you desire, off goes the fire. No needless

fuel is burned.

If for example, an extra number of baths are being taken, and the water should start coming just warm instead of hot, then the Aquastat will see to its being hot again in a surprisingly short time.

"But," you say, "doesn't running the boiler that way heat the house too? Isn't there a waste of fuel?"

No, not at all. The Aquastat attends to that. It never allows the water to get hot enough at any time, to throw heat into your radiators. Automatic control valves on the mains prevent Summer-time circulation of hot water through the radiators. As for cost of fuel, it is but little, if any more than other methods.

But supposing it did cost a bit more, what of it, considering that you know you will at all times, Summer and Winter, have plenty of hot water. All the time. Not just at times.

But you ask what of Coal and Gas-Fired Boilers for Automatic Heat?

Glad you asked that question, even though we have touched somewhat on it already. But it is so important that just touching isn't enough. So let's go into it thoroughly.

Gas

OME FEEL THAT GAS is the coming fuel. There isn't a doubt of its being one of the cleanest, fully automatic heats there is. In sections where the gas rate is favorable, we recommend its use. Burnham has a worthy gas-fired boiler designed specially for the purpose.

It's an interesting thing that this boiler shows in service, an economy equalling that of the tests made at the plant, conducted very naturally under favoring conditions.

One of the decided advantages of gas heating is its absolute freedom from care. Once the boiler is installed and connected to the gas, you need give it practically no more attention than you do the water in your home. Like it, it's always there to instantly turn on. No bother watching the coal bin supply, or amount of oil in the tank. No fear of running out of fuel when snow may hold up truck deliveries. No stopping of heat if the electric current supply should fail.

The great increase in home gas heating during recent years shows plainly enough the rapidly increasing appreciation of its care-free advantages.

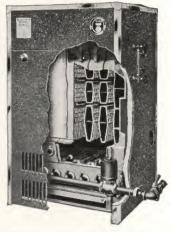
Stoker-Fired Coal

Automatic or mechanical coal stokers have been used for a long time for industrial boilers. And for a while the makers certainly did have a lot of grief, when they tried to cut down "papa's pants to fit Willie", so to speak, in attempting to adopt those stokers for home heating boilers.

Happily for you, that's all a thing of the long past. The present day stokers are quite wonders of ingenuity. They are just as dependable as oil burners. Burn a low priced coal, therefore are great fuel-cost savers.

Fuel can be either put in hopper by hand, or automatically fed from the bin. The ashes are mechanically deposited in cans, doing away with the dust objection, not to mention the work and the bother that hand shovelling means.

See pages 25 and 26 for Questions and Answers About Stokers and Gas Heating



This Burnham is of distinctly different design than our other boilers. It is made to give you the most possible return from the gas burned. You may doubt our claiming an 8 to 10% economy over other gas boilers, but we have the proofs which you are most welcome to see. For a good many years it has been making warm friends because of the satisfactory way it heats homes.



No, stokers are not noisy. They are just as silent as oil burners. They are entirely automatic, being controlled by a thermostat exactly like an oil burner. They will also give you all year around hot water supply for kitchen and baths controlled by an automatic Aquastat.

Attic Fan Cooler

Reduces Summer Temperature In Your Home 6 to 8 Degrees

T's the heat that accumulates in the attic and stays dead in your rooms that holds back the after-sundown cooling off of your home. Especially on nights when there is little if any air stirring outside.

If then that dead, stored-up hot air that's in the attic and hanging about your rooms, could be drawn out of your house, and replaced by the cooler evening outside air, you would have one of the simplest, most practical methods of making your entire house agreeably comfortable.

That's exactly what the Burnham Attic Fan Cooler does. Located in the attic, it draws the hot air out of the house and removes the blanket of heat from the attic. Cool night air is drawn in through open windows in the living and sleeping quarters. Every room is filled with this cooling, comforting air from outdoors. A fresh supply of this cool air fills the house every minute or so. You can be sure it does not take very long for the family to react to its comforting stimulation. On through the night this cooling continues, giving rest and comfort to otherwise sleepless tossings. All the walls, floors and ceilings, all the furniture, is cooled far below the daytime temperature. As a result of this night cooling, the house will remain pleasant throughout the following day.

The Attic Fan Cooler comes to you complete, everything is included for an easy quick installation.

INSTALLATION SIMPLE

The complete Fan Cooler with Attic Package equipment includes the special Burnham Strong-Pull Fan, the vent box or duct with its flame-proof draft door, fan switch and ceiling grille.

There's nothing the least complicated about installing this Attic Cooler. Anyone the least mechanically minded can do it. The hall ceiling grille has an ornamental trim, that completely covers the rough plaster edges left in cutting the ceiling opening.

If you wish more detailed information, send for special folder giving full particulars.

The complete Attic Cooler Package Equipment is made in several sizes.

FOR FLAT ROOFS

If you have a flat roof and no attic, as is the case with many of the Modern houses, we have an outfit that can be placed right on the roof, and perform equally as effective.

FIRE STOP

The vent box is equipped with a flame-proof fire stop door. It is connected with a fusible plug, which melts and tightly closes the trap door and shuts off the fan, preventing all drafts that might draw any fire from below into the attic.

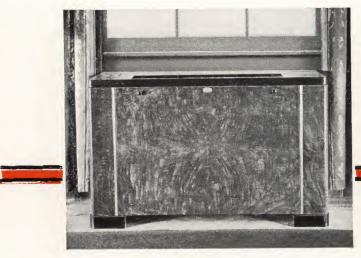


This is the fan used in cooler and ventilator.

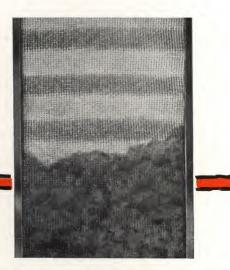


Portable Window Ventilator

It's amazing the cooling this high capacity Portable Window Ventilator does. It lowers the temperature not alone in the room where located, but has an effect on the entire house, in the way it literally draws out the hot inside air, and pulls in the cooler outside night air. It can easily be moved from one location to another. The rubber tipped legs are adjustable to fit different height windows. Plug it into an electric light outlet exactly like a floor lamp. That's all there is to it. Cabinet is attractive in design and finely finished. Grilles thoroughly protect fan, preventing harm to draperies and humans. For different width windows we furnish adjustable spacings for each side. Here at last is a thoroughly practical, effective home cooler, the first cost of which is reasonable and current consumption decidedly low.



Here's how the air condition craft-made cabinet looks. You can place it under a window or any other location exactly like a radiator. It can be recessed if you like. See the diagram on next page for how it works.



This is the filter with 2 months collection partly cleaned off. It's easily removable for cleaning. You will be surprised at the amount of dust, dirt and lint it takes out of the air you breathe. To clean, simply put under the faucet.

How To Air Condition Your Home For The Least Cost



Helps Hay Fever And Asthma

We are not so bold as to say our air conditioner cures either of these troubles. But it certainly is a decided help to such sufferers. We don't say it filters out all the pollen or dust in the air. But it does capture enough of it, to cause great relief to many.

NOTHER outstanding advantage of the Burnham Radiator system of heating, is that for comparatively little, you can have it air condition any one or more rooms.

It has distinct advantages over other methods in its simplicity. Still it does everything in winter air conditioning that the most elaborate systems do, and costs less to do it. There is no space taking, complicated costly equipment in your basement, requiring constant attention. No cutting of your floor or disfiguring of walls, for grilles. No annoying recirculating of odors or disease germs from one room to another, as is absolutely unavoidable with most systems.

Here is how simple this Burnham unit system is. In place of a radiator you use our air conditioner. It takes up practically no more room than the usual radiator grille enclosure. It fits right under your window. It can if you wish, be recessed.

The burl walnut finished cabinet, trimmed with velvet black and just the right relieving touch of chromium, looks like a fine piece of furniture. You would never guess the many things it does so noiselessly and effectively.

FIRST

It filter cleans the air from the dust that is in all rooms regardless of how painstaking the housekeeping is.

SECOND

It warms the filter cleaned and sweetened air.

THIRD

It adds just the right healthy amount of moisture. Not so much as to cloud the windows. But just enough to put back the natural moisture heat takes out.



Here is the Conditioner recessed with its Burnham Panel Front. No trouble at all to install. The center panel is removable for easy access to fan and motor, exactly as with the regular cabinet. Furnished in prime coat for finishing in harmony with your color scheme.

FOURTH

It forces the air into the room through a deflector grille, giving it a rapid circulation, meaning quickened heating. The deflector grille throws the filter cleaned, heated and humidified air into the room, at just the right angle to prevent any one sitting by it getting heat blasts.

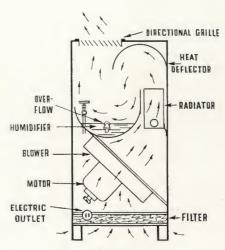
There is a thermostat which automatically controls it, turning the fan on and off as needed. There's also an automatic current snap-on switch, which prevents waste of electricity. The water in the humidifier does not have to be put in by hand. It too automatically takes care of itself.

In the usual air conditioning systems you must have, and must pay for, an elaborate and generally costly equipment sufficient to Condition every room in your home, when all you may really want is, one or perhaps three rooms. But with the Burnham Unit System, you Condition only the rooms you want. That means saving money.

Here's another point in this Burnham method's favor. And it's a strong point! During the summer when heat is off, you can run the Conditioner Fan to make your rooms comfortable, exactly as a regular fan is used. The thermostat has a hand switch control for just that purpose. You'll find it a great improvement over fans, as the air circulation is more general and no spraying of air on anyone, endangering colds.

Here's still another important point, that of the installation. It's simple. Requires no special engineer. Any steam fitter can do it.

Yet another advantage of this Burnham Conditioner is that you can add it to your radiator system at any time; do it equally well on an old, as a new radiator heating system of any kind. All of which are just the high spots. But we have a special piece of printed matter that goes into every essential phase of air conditioning. It's not at all technical. Just simply told, quite like this chat together has been. Will be glad to send it to you on request.



How It Works

This sketch shows you how the fan driven heated air, is drawn in through the filter at the bottom and then thrown down on the surface of the water in the humidifier, where it picks up its natural content of moisture before it flows out the deflector grille into your room. The deflectors are set at just the right angle to throw the heat away from your draperies and out into the room at a height to give the quickest, most agreeable heating results. It does not come out with a blast, but just a gentle steady noiseless flow. You get more and quicker heat from the Conditioner than any radiator alone. It means fuel economy. When the fan is off, no heat is driven into the room. But there is a certain amount coming into the humidifier chamber, causing just enough moisture to be constantly delivered into the room to preserve an agreeable healthy condition.

You Ask Which Is Better the Round or Square Boiler?

both do best the job they are built to do. So far as economy is concerned, one is just as heat thrifty as the other. Sometimes one costs more than the other—and that often decides it. So let's look each of them in the face and make them tell their own common sense story.



"My head may look swelled. And it is. That's because I'm built to do steam heating as it ought to be done."

THE ROUND BOILER TALKS

OU SEE IT IS LIKE THIS. I am sort of a tea kettle grown up. A tea kettle with long pants on, so to speak. Because I have always looked like a cross-section between a kettle and the old dining room stove, a lot of folks could understand me. They just put me down as sort of a glorified stove with a tea kettle attachment, that you could hook up to radiators and make everybody heat happy.

"So I sprang into popularity over night. If I do say it myself, there's a lot to be said in my favor. For the moderate size house, you certainly would have a hard time beating me.

"Of course, I have a lot of relations in the round boiler family which I don't much take to. They are off-shoots of the sturdy old Burnham stock under other names. They have married out of their class and cheapened themselves. You know what that means.

"They doll all up and put on the dog. But somehow I just can't feel sure of them.

"I give you the real blown-in-the-bottle-brand of Burnham Cosy Comfort Heat. The heat from a pure blood Burnham Round Boiler. Burns coal, gas or oil. I make a powerful good showing automatically fired. In fact, am quite a general favorite with the oil burner folks. I am a warm friend on whom you can unfailingly depend."



"Here I am with the swelling out of my head ready to do a specially fine job of hot water heating, the way it also should be done."

"It isn't often I open up and let folks in on the inside. But sort of feel I can depend on you. So here I am opened up. Those wrinkles over the fire greatly increase my fuel saving usefulness. But why go into such details here."





"Now you are on the inside, you might as well take a look at my 'inmost innards'. Am built in sort of layers or sections. Note how the hot gases pass back and forth. It is called fire-travel. Because my fire-travel is so long, my coal bills are short."



For Coal

This is the way I look when all set for burning coal. My jacket is the latest style and lined with heavy insulation to keep my hear from going off in the air instead of into the radiators.



For All Fuels

I am the Yello-Jacket Burnham all dolled up in a dandelion yellow jacket, looking right smart and sassy like. If you want to know all about me turn to pages 20 and 21.

For Oil

When you want to use me for oil my grates are left out, fire-bricks put in and the ash pit door is changed to this plate front with a hole for the oil burner nozzle.



The Burnham Square Boiler Speaks Right Out In Meeting

onsidering how the Burnham Round Boiler is my full blood brother, it just wouldn't do for me to say anything against him. Don't know that I could anyway, he is such a dependable, straight-shooting, sure-fire performer.

"But, as is the case with any two brothers, some like one of us, and some the other. Admittedly, there was a time when more liked him than liked me. But it is about even now.

"You see he is built in layers—one on top of the other. I am built in sections, one behind the other.

"In cases where the cellar ceiling is low, I have a way of fitting in. Should additions be put on the home, another section can be added to me, when there might not be room for one on top of my round brother. "So far as heat thriftiness is concerned, don't know-as it becomes me to brag a whole lot. Still there are folks who simply wouldn't consider a round boiler. They like my squarish shape fire box and the easy way my grates shake. Some sizes have double grates, making it possible to run half the fire in early fall and spring, when only a little heat is needed. And all the grates when real winter weather comes. There isn't a doubt I save them fuel.

"My fire travel is long. Goes three-times-back-and-forth my full length, regardless of how many, or how few sections I have. It is that long fire travel that makes my short fuel bill, just as it does in the Round Burnham.

"Folks also like my swell clothes. My tailored jacket I'd have you know, is of the latest cut. It fits right into any dolled up cellar or recreation room, and unfailingly does the Burnham family full credit."

The Saving Advantages of a Conversion Burnham

that a lot of folks are keen for.

You see it's this way. Suppose you have a sort of leaning towards burning oil. There are a goodly number of things can be said in its favor. But always comes the thought, suppose the cost of oil should some day be more than coal, or if for any other reason I might want to use coal, then what can I do with my oil burning boiler?

HERE'S another thing you should know about me,

You just can't do a thing about it, if your boiler is one specially designed for oil, with a built-in burner. Only thing to do, is buy an out-and-out new boiler, unless you

are lucky enough to have one of our Conversion Burnhams.

If you have, then by simply changing the base—not at all a costly matter—you can change over to burning coal without buying a new boiler.

When you use our Conversion Boiler for oil, the burner is on the outside. Or with the Yello-Jacket we can furnish an extension that encloses the oil burner.

If, however, you have a feeling you will never want to change from oil, then by all means, use one of our special Built-In Oil Burning Burnhams, told about on pages 12 and 13.



ITS GOOD LOOKS

When you see this Yello-Jacket boiler, it's so pleasing, so attractive looking in every way, that you'll have the impression of its being a piece of furniture or a fine cabinet. And in a sense, it is both.

That combination of light dandelion yellow and black, with just a touch of chromium, is certainly something to conjure with.

This boiler happens to be equipped for oil burning.

It Stings

THE ALL-FUEL Yello-Jacket Burnham

For Hot Water or Steam



There are a lot of smiles for every owner of this New Yello-Jacket boiler because of the way it stings the fuel bill. And when we say stings, don't mean the honey bee kind, that stings once,

leaving the stinger in the one sting, and then dies. This boiler is a regular yellow jacket that stings, and keeps right on stinging your fuel bill year after year. You can burn any kind of fuel in it, and the stinging will be the same. It matters not whether it is coal, oil or gas.

There's one thing you'll particularly like about it, because it can save you future costs. Suppose you decide to burn oil, and then after a while, find coal is cheaper. Or for reasons you prefer it to oil. If you had a boiler that was designed only to burn oil, you



PLENTY OF LOW COST HOT WATER

If you want your basement free from a hot water supply storage tank, just say so, and we'll equip your Yello-Jacket with this Tankless Taco instantaneous heater.

The boiler will come to you with the heater right inside all ready to start doing its job of supplying you plenty of hot water for kitchen, bath or laundry.

If you prefer a storage tank, we'll equip the boiler with a Taco heater to best keep it hot water filled.

Your Fuel Bill



couldn't use it for coal. You would have to discard it and buy an out-and-out new boiler.

But not so with this Yello-Jacket. For very little cost you can convert it for oil, even to having an extension of the jacket to enclose the oil burner. It's also just as easy to shift from oil to coal any time.

Another outstanding point in its favor, is that it will give you hot water for your kitchen and bath for practically no cost.

But that isn't all. You don't even need a storage tank. That's a saving in itself. There's a Tankless Taco Heater built right inside the boiler that heats the water instantaneously as fast as you draw it. If, however, you prefer having a storage tank, then we furnish a biltin Taco to give you hot water that way.

What I am about to mention may be a bit technical, but it has so much to do with the fuel bill stinging, it can't be left out. It's about the combustion chamber. This Yello-Jacket has two. It's the only all fuel cast iron boiler that has these particular two.

Now the combustion chamber is the space where the fire burns. That part of the boiler in the combustion chamber, that's right over the fire, is the most efficient, because it's what is called "direct surface" and absorbs the radiant heat.

This Yello-Jacket's combustion chamber extends not only over the fire, but also right through the center of the boiler, from cellar to garret, so to speak. The fire shines directly on all that surface, and where the fire shines, the most heat from the flames is absorbed.

No other cast iron boiler so far as we know, has this double combustion chamber feature. No other has as much direct fire shine surface.

Hope we have made it clear, because it's a most important feature. Besides which, there are many other economy features, but we won't tire you with them.

Do want, however, to say a word about the jacket. It's so pleasing in design and so thoroughly well made, that it scarce looks like a boiler, but a fine piece of cabinet work. The color is a most attractive light dandelion yellow, that harmonizes with practically any color. The enamel is double coated, twice baked. The jacket is heavily insulated so there is practically no loss heat.

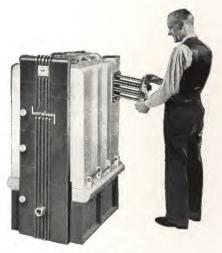
Here then, is the last word in boilers. One that we are fully warranted in saying, is by far the best all around, all-fuel-boiler, your money can buy, barring none.



THAT DOUBLE COMBUSTION CHAMBER

Perhaps you can get the best idea of what the double combustion chamber is by our taking a section of the boiler and showing the fire. In all other cast iron boilers the direct fire-shine-fire, is only on the surfaces directly over the fire.

Note how here they are not only those over the fire, but all the way to the top. It's one of the big reasons for the way this Yello-Jacket boiler stings the fuel bill.



LOCATION OF HOT WATER HEATER

Here is the boiler before the jacket was put on, and showing the Taco Heater being slipped in place, inside the boiler. Its location is at a point where the boiler water itself is the hottest.

It insures not only quick heating, but an ample supply of low cost hot water from your taps or faucets.



JACKET EXTENSION IS REMOVABLE

The jacket extension easily lifts off and on. In fact it has a convenient handle on each side for just that purpose.

Just another of the many so called "little points", that have been given true Burnham consideration.

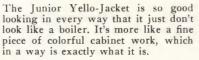


JACKET EXTENSION ENCLOSING THE OIL BURNER

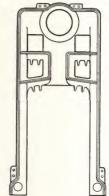
You don't have to enclose the burner. But it does make a more attractive looking job. Besides, it protects the burner from the children or any busybody tinkerer.











Here's one of the three sections that go to make up the boiler. Note how long the sides or legs are. That's because those legs make the base as well as the combustion chamber. Cuts down the cost of set up. Gives an additional economy, as every part of the boiler excepting the bottom, is completely water surrounded—another economy point.

The New Burnham Junior Yello-Jacket Designed Especially For Small Homes

OU know there is a fellow they call "Old Man Diminishing Ratio". He's a bothersome sort who causes a lot of trouble.

Here's how he works. Suppose for example you have a small table that just suits you in every way. It's so satisfactory you decide to have a larger one made following the proportions exactly.

By all that's reasonable it should be just as good looking as the other. But it somehow looks funny, seems out of proportion. That's where Old Man Diminishing Ratio comes in. He works both up and down.

Now from the down side let's take a boiler. A fair sized one for instance that performs satisfactorily in every way. By all that's reasonable its satisfactory performance should continue in a small size for Small Home Heating. But it just doesn't work that way. The Old Man steps in and makes trouble.

So that's why we have made this especially designed Burnham Junior Yello-Jacket just for Small Home Heating

Of course it has many of the features of our other boilers. But it is not a case of papa's pants being cut down to fit Willie. It's an out and out new boiler made out of whole cloth, so to speak.

It's made to do the most economical job possible, of

heating Small Homes. Ones having four, five or even six rooms. It's moderate in cost as it should be. It has the same fuel stinging economy of the Yello-Jacket Boiler told about on pages 20 and 21.

It has a Biltin Taco Tankless hot water supply heater for both kitchen and laundry. Gives you plenty of hot water in the most economical possible way. No storage tank needed. Or a Biltin Storage Type Taco Heater can be furnished.

Because the light dandelion yellow finish and design of the jacket has made such a hit, this Burnham has one like it. It also has the same front porch, or removable jacket extension for covering the burner when using oil. There is however no separate base. The boiler proper and base are all in one piece, making the whole boiler water surrounded, which is an economy feature of itself, especially when burning oil.

It also cuts down installation costs as the boiler is shipped all set up, ready to put right on the floor and connect up, quite like a refrigerator comes to you. The only difference is the jacket has to be put on, which takes no time at all it goes on so easily.

Here then is as perfect a boiler for Small Home Heating as your money can buy. One in which Old Man Diminishing Ratio has been given the loud laugh.

How Burnham Air Valves Save You Money



Burnham No. B2 Chromium plated Adjustable Radiator Valve

It quickly lets the air out and then closes tight so it can't sneak back in, when the radiators cool down. HETHER YOU'LL ADMIT IT OR NOT, air is radiator heat's biggest enemy. It is the fighting out of the old law that two things cannot occupy the same space at the same time.

If there is air in your radiators, the steam will do its best to push it out. If there is no vent place, then it will try to compress it—and the battle is on. Sometimes you hear the struggle, in disagreeable knockings and bangings.

Often it results in only a portion of your radiators heating. Or, if you have air venting valves that are not any too good, the air may be let out so gingerly that the slow creeping across of the heat makes you disgusted with the whole heating system.

You may be burning plenty of fuel and still getting only stingy heat. So see to it that each one of your radiators is equipped with Burnham dependable air valves.

One kind lets the air out, but soon as the heat dies down a bit, lets it creep back in. Most valves, sorry to say, are that way.

By far the better way is to use the Burnham Valve that both lets the air out and then keeps it out. They cost more, because obviously they are worth more.

It is a smart idea to also vent the mains. That means they are at once freed so the steam can quickly get to your radiators. The air that would otherwise be pushed into the radiators, is let out before reaching them.

Some folks cut costs on their heating by using cheap valves that soon clog up and cease to function.

Burnham valves are chromium plated, and when rightly installed, are unconditionally guaranteed for one year. So see to it that you get Burnhams.

Burnham Air Valves are available in the adjustable or non-adjustable types.



Burnham No. B4 Chromium plated Adjustable Valve for Mains, Coils

and Risers



Burnham
No. 6 Valve
for quick venting
of air in mains

Your Questions Answered

THESE QUESTIONS are the ones which are most asked either by letter or in person. Some of them may cover just the things you may also want to know. So here they are: However, don't hesitate to ask us anything else you may have in mind. You will find us rather pleasant people.

ABOUT HEATING IN GENERAL

1. Which costs less to install, Hot Water or Steam?

Hot Water costs more because with the natural flow, or gravity system, the radiators have to be larger and double the piping is necessary.

2. Why does hot water require large radiators and twice the piping of steam?

With steam, the one pipe carries both the steam from the boiler to the radiators, and the condensation from the radiators back to the boiler. With hot water, the entire system is filled with water, and in order to keep in constant circulation must have the same size pipes leading from the radiators to the boiler, as from boiler to radiators.

The radiators have to be much larger because hot water seldom gets much above 180 degrees and averages about 140; while steam is always at least 212 degrees.

To get the same result from hot water as steam, you

therefore, must have a larger radiator to make up the difference of from about 40 to 70 degrees.

3. Do I always have to have Two Pipes on Hot Water System?

No you don't.

There is the one pipe Venturi automatic system for oil, gas or stoker fired coal, which we heartily recom-

A one pipe circuit is made practical by using a circulator to increase the flow speed of the water through the radiators and back to the boiler. In addition, there is a Venturi-One fitting connected to each radiator, which in turn, automatically pulls the water through the radiators faster. It's all thermostatically controlled.

4. Which burns the least coal, hot water or steam?

Some claim there is very little difference in the coal you burn. But hot water has an advantage in the way the latent heat in the water keeps right on heating a considerable time after shutting the fire entirely off. When you start the fire you do not have to run the water up to practically boiling point before you get any returns, as with steam.

Hot water begins heating as soon as there is enough heat in it to make the water circulate. Just logically

it should save fuel.

5. Can I enlarge a Burnham if we should later on decide to enlarge our house, or must I either buy too big a boiler now, or get an entirely new one then?

> Most assuredly you can add to a Burnham as you add to your home. It's built in sections, quite like a sectional

> It's one of the strong points in practically all Burnhams.

6. How does Vapor or Vacuum system differ from steam or hot water?

By the use of specially constructed valves, a partial vacuum is created in the pipes and radiators which lowers the boiling point of the water, allowing a hot vapor to enter the pipes several degrees before the boiling point of the water is reached.

The condensation is returned to the boiler by separate small pipes, insuring absolutely no interference with the passage of the vapor.

The partial vacuum created, holds the heat, and the valves prevent the air from returning to the system. Therefore, the radiators hold the heat longer than steam radiators.

The radiators are about the same size as for steam. In effect, you get approximately the same even temperature and economical results as with hot water, with rather more flexibility. Vacuum Systems cost approximately the same as hot water.

7. Is there some way of having hot water for kitchen and bath without a separate boiler?

Yes indeed there is. You can connect a Taco hot water heater to your boiler, which will heat the water in a storage tank. Or you can do away with a tank by using a Tankless Taco Heater which is also connected to the outside of boiler. It heats the water instantaneously, as drawn from the taps.

Happily for you, practically all Burnham boilers have a Taco Heater built right inside them, out of sight and out of the way. They are a direct part of the boiler and highly efficient.

8. Which is better the round or square boiler?

Glad you asked that question. It's important. Just turn to page 18.

9. Do we have to buy a Burnham direct from your boiler plants?

Not at all.

All heating men know about Burnhams, even if they may not have them in stock.

You can buy direct from them, and they will order it from us.

Should there not be a heating man in your town, will be glad to have you write to us direct, and we will put you in touch with one.

If you are building or remodeling, and employing an architect, see to it that he specifies a Burnham in your heating specifications.

To insure prompt deliveries we have a stock of boilers in fifty main distributing centers.

10. If I buy a Burnham can we be sure of always getting parts?

Just as sure as you can of any boiler. We have been making boilers for over 70 years and never failed anyone yet.

Questions about OIL HEAT

1. Do I have to have special radiators or piping for oil heating?

Most assuredly not. The same radiators, the same piping used for any hot water, steam or vacuum system, are used. However, before you decide on the kind of radiators, be sure and give careful consideration to the Burnham Slenderized ones, as told about on pages 8 and 9.

2. Do I have to buy an out-and-out oil burning boiler? Can't I use an oil burner with my present boiler?

Of course you can, and often with satisfactory results. But so much depends on the type of boiler you may have. All Burnham Boilers because of their particular design, give fine results with the attached burners. But the special Burnham Oil Burning Boiler has cer-

tain built-in features and automatic controls which you may feel are a distinct advantage.

3. How about the oil tanks, must I dig a big hole in my yard and a ditch for the pipes from it to the burner?

Not at all. Most States now permit the placing of tanks inside, near the boiler. It is always good to have an ample size tank so you have enough oil in reserve in case of emergencies.

4. How about the comparative economy of automatic oil as against hand-firing of coal?

Put it up to your local man. He can give you definite figures. But here's a point you should bear in mind. The burning of oil is entirely automatic. No coal to

shovel. No ashes to be taken care of. Your rooms need never get chilly because of the fire "going down" and having to wait for it to "come up," as it's called. Practically the instant the oil burner goes on, a full volume of heat is produced. You can have your house warmed the same at night as during the day at very little, if any, additional cost. That's because it costs less to keep a uniform temperature, than to let it down during the night and then have to overcome all that accumulated cold by running the fire harder and longer.

So even if you are located where coal may be somewhat cheaper, the comfort and practically entire freedom from attention required by oil, over-shadows any

variance in cost.

5. How about noise?

By noise you, of course, mean the burner. As for the mechanism of the burner itself—the electric driven fan mainly—that has been so perfected it is of no consequence. It is the noise of the burning flame that could be the most disturbing. But that is largely a thing of the past. With our De Luxe boiler everything is built into the Boiler. Everything, burner and all, is enclosed inside the jacket. The burner chamber is lined with a sound deadening material. Even the door. You can rest assured that any burner you may put in this sound-hushed DeLuxe Burnham will be so quiet you and your guests will never know when it is either on or off.

6. Is there any danger of something happening and the oil leaking out all over the place?

How about your water system, are you afraid of that happening? Would you go without piped water through your house, just because now and again a leak happens? With the valving and automatic controls now used there is no more danger with the oil than the water. In fact less, because the oil isn't under any pressure at all until it reaches the flame nozzle that is inside the combustion chamber or fire box.

7. Suppose anything happens to the insides of the Burnham Oil Boiler, how can anyone get inside the jacket to fix it?

Well, before the jacket is put on, the boiler and all the connections are first made. The jacket is no more than your overcoat is to you. If anything, it's easier to take your coat off than put it on. There's your answer about the Burnham jacket. 8. Is there any odor?

Not in the least, if the installation is right and the burner is kept reasonably clean. The first you would insist on anyway. The other you would see was done just because it is common sense. Besides, every once in a while there is a gas from coal. But you never heard of anyone going back to wood, just for that chance occurrence, did you?

9. How about the dirt? Is oil heat clean?

There's no smoke, no ashes, the fire that burns up everything.

10. How about the jacket on the Burnham Oil Boiler, does it give as good an insulation as the asbestos cement applied directly to the boiler?

Better. Far better. That's proven by the coolness of the jacket. You can put your hand on it at any time. The Burnham jacket is heavily lined with a combination of insulating and sound deadening materials. So vou see, it is something more than mere looks back of the way Burnham jackets a boiler. It adds to looks, lessens noise, and it also spells economy.

11. Suppose I have trouble with the boiler, who is going to make it right?

Go to the dealer you bought it from. If it's his fault, he will make good. If it's our fault he will take it up with us and you can depend on our being only too glad to see it's made right. We want our Burnham users satisfied. It isn't just being pleasant on our part. It's good business. Pleasant dealings and good business, happily make the best of teams.

12. Where can I buy a Burnham Oil Burning Boiler?

We don't sell direct. That is, from our factory direct to you. They must come through some dealer or contractor. If you don't happen to know any such in your section, just let us know and we will arrange all that for you.

It is distinctly to your advantage to have your heating boiler installed by an experienced dealer, who is handy by, and can give your burner prompt servicing.

Questions on STOKER FIRING

 Having concluded I want automatic heat, how shall I go about deciding whether to make it oil or stoker fired coal?

> Well, that's not such a problem. One thing sure, however, if you ask your friends who have oil, they can't sing its praises enough. In turn, the same song of complete satisfaction will be sung by the stokerites. So why not ask us all the questions that are on your mind, and we will try to answer every one of them.

2. All right then, what I first want to know is the comparative cost of each.

In the last few years as the number of oil burners sold have increased, so has their cost decreased. The perfecting of stokers has been slower, and sales accordingly, so that in general, they have cost more. But they don't cost any more in the long run. Just why, have a notion some of your other questions will fully bring out.

3. Will a stoker save me money?

Yes, it will. If you have been burning coal, hand-firing it, there will be a decided saving. For example, take the usual size of Anthracite used in boilers. Its cost varies from \$12 to around \$14.50 a ton anywhere within say 500 miles of New York. With a stoker you can burn a fine grade coal costing from 6 to 9 dollars a ton delivered. Don't know how many rooms your house has, or is to have, but let's say it requires 10 tons to heat it with hand-firing size coal. At \$12 that would be \$120. At \$14.50 it would be \$145. With the stoker it would cost from 60 to 90 dollars. A saving of from 55 to 60 dollars. Suppose, therefore, the first cost of the

stoker is more than an oil burner, the saving on cost of fuel soon overcomes all that, and still you keep on saving that 55 to 60 dollars, year by year. Of course there is the cost of electricity to run them same as with oil burners. But that's a small item.

4. But, you ask, isn't Oil cheaper than Coal?

Well, its average cost is just about the same as Anthracite at \$12 to \$14.50 a ton, depending on the locality.

5. How about the electricity used? Does a stoker take more?

No, it really doesn't. But supposing it did, you have that large saving on fuel cost to many times offset it. So that possible objection is out.

6. What about the nuisance of ashes with stoker-fired boilers?

Frankly, that is the only possible objection to stokers. But after all, isn't it a rather over-emphasized one? Present day stokers automatically remove the ashes from the boiler and dustlessly deposit them in cans. It is no longer a messy, dusty job. Just remove the filled can and replace with an empty one. Sort of like setting out the milk bottles.

Some of my friends tell me a stoker takes up more room.

Yes, they do. That is to say they do, if you are comparing an oil burner that is Built-in the boiler—a direct part of it. Of course, then the whole outfit is only as big as the boiler itself. However, if you compare a Conversion boiler, one with the burner on the outside, then the new designed stokers take up but little more room.

8. What about the work of filling the stoker hopper?

You don't need to. Present day stokers automatically bring the coal direct from your bin to the boiler. Fill the bin and the stoker does the rest. This automatic feature does add a bit to the first cost of the stoker. So if you are figuring your first cost with a very sharp pencil, then why not have the hand-filled hopper? No trick to do it. It's a lad's job, in fact. Fill it every 24 hours during the Winter, and every 3 or 4 days in the warmer months. That is, if you intend to use your boiler to furnish all year round hot water, as so many have found the advantage of doing.

Does a stoker need more servicing than an oil burner?

No, it doesn't. A stoker requires no more attention than your ice box. Most stoker concerns have a yearly inspection service, which includes vacuum cleaning your boiler, going over the stoker, oiling and putting it in apple-pie order. It's well worth its nominal yearly cost. In some places the coal companies selling stokers, so we understand, do this once a year servicing free.

10. What happens if the electric current goes off?

Exactly the same thing as happens with an oil burner, or your electric refrigerator. It stops. But with a stoker the bed of coals will hold fire for 3 or 4 hours. You can also burn wood to tide over the interval.

11. There's one more question nearly forgot. How about the noise?

There's practically no more noise with present day perfected stokers, than with an oil burner or an ice box. So now that you have asked all the questions you could dig up, let us remind you of this. We make all kinds of boilers for every place and purpose. Cast iron ones. Steel ones. Gas burning boilers. Boilers for oil, coal or coke. For more than half a century we have been making boilers. So doesn't it look to you as if we ought to know how best to make them?

Questions on Gas

1. Do you think gas is the coming fuel? There seems to be a lot of talk about it.

Frankly now, we don't claim to be any prophet. But one thing sure, it is fast on the gain.

2. What has started all the talk about using gas for home heating?

Well, in the first place, it is entirely automatic. Just as much so as the water in your bathroom. No filling of bins or tanks. No ashes. No odor, No bother. No noise. Simply a case of connecting up the pipe, and there the gas is, always ready for use at any time.

3. What is meant by its being entirely automatic?

Mostly it means, there are no bothers. Not only is the fuel supplied automatically, but the whole control of its burning and the amount of heat in your home is under full automatic control.

4. Do gas boilers cost more than coal or oil boilers?

Gas boilers cost more than coal boilers because of their automatic controls, but cost less than a boilerburner unit. 5. How about the cost of running them?

Glad you asked that question. The answer is, if you are in a section where there is natural gas, they generally cost less to run than with anthracite coal or oil. Bituminous coal is of course somewhat less costly than natural gas. The gas companies pretty much all over the country are making very attractive new rates for home heating. This makes it possible for many a one to use gas to whom the cost was prohibitive before.

6. Suppose it should cost somewhat more, is it worth it?

Don't know as we can exactly say what a thing is worth to you. So let us in turn ask you a question. Is it worth something to you to have an entirely botherless heat? One the fuel supply for which is always there. One that is entirely automatic in every way. One that has a pay-after-you use advantage. One that is always on tap so to speak, at any time of the year, for as little or as much heat as you need. Also remember that 24-hour free service is available from your Gas Company should it ever be necessary. Assured comfortentire convenience and a total freedom from care—don't you feel all these are worth something to you? So far as we are concerned, our company makes boilers for all kinds of fuel, putting us in an unprejudiced position. So we have tried to answer all your questions with absolute frankness.

Questions on Air Conditioning

1. Is the Burnham Air Conditioner an all year around one, doing cooling in summer?

Yes and no

It is strictly speaking a winter air conditioning system, the time when conditioning is most needed for health and real comfort reasons.

Although it is equipped with no cooling device, however, it does circulate the dead summer air after the manner of an electric fan.

There is no draft, no danger of cold taking. All the air in the room is *evenly* circulated, not just pushed from one place to another.

2. Does it help asthma and hay fever?

Most emphatically it does.

The washable glass wool filter captures the pollen to a high degree, alleviating and in some cases giving entire relief.

3. Does it do a complete winter air conditioning job without the use of ducts, registers or grilles?

Most assuredly it does. Anything and everything that any duct system does, the Burnham does, only in a simpler way at far less cost.

It has the added advantage of individual room control. But still that isn't all, you have both radiant and convected heat in rightly balanced proportions. A very essential point for your comfort and heating economy.

4. How is the humidity controlled?

The reason humidity is so vital in the winter, is because the heating dries the moisture out of the air. That conditioner therefore is the best, which puts back just the natural amount that the heat dries out, restoring a healthful balance.

That's exactly what the Burnham does. But it does not keep on adding additional moisture beyond that restored balance. Systems that do that, are apt to cause excessive moisture, causing clouding of windows, which not infrequently means that moisture runs down on the sill.

5. What equipment do I have to have in my basement?

Absolutely none. No ducts. No fans, no anything but just a Burnham Boiler, and the usual pipe to the radiators. The air conditioner is in form of a radiator that heats besides air conditioning. It's located upstairs in the rooms.

6. How much room does the Burnham Conditioner take up?

Practically no more than the usual grille enclosed radiator.

It fits under any average window. Can be partially or entirely recessed exactly like a radiator.

7. Do the Conditioners do any heating?

Most emphatically yes. Exactly the same as any radiator.

8. Does it circulate odors and disease germs as duct systems are said to do?

All duct systems recirculate air from the entire house. Odors and germs along with it. There is no way to

The Burnham with its separate conditioners, instead of a central method of distribution, permits of isolating any room, and still not in the least effecting the heating efficiency of the system.

9. Of what does a complete Burnham Heating and Air Conditioning System consist?

First there's the boiler and Burnham Slenderized radiators for steam, hot water or vapor. With automatic stoker, oil or gas fuel, the boiler can take care of your hot water for kitchen and bath.

No separate hot water supply boiler needed.

The only difference from a regular radiator heating system is that in place of some radiators, a conditioner is used, which does both heating and air conditioning.

10. How many Unit Air Conditioners do I need?

The only rooms in which air conditioning is primarily needed is the living room, or dining room and possibly the master's bed room.

11. Is a Conditioner necessary in a bed room, where the windows are generally open when used for sleeping?

If the user has pollen asthma or hay fever, the outside air can then be introduced solely through the conditioner, taking out the pollen and giving decided relief.

12. Do I have to look after the Conditioner, turning it on or off or filling it with water?

Not at all. Everything is automatic. Each Unit is controlled by its own separate thermostat. Or it can be operated by your regular thermostat the same as your radiators are. For summer use in circulating the air, there is however a hand switch for the fan.

13. Must I put in an entire new Burnham heating system to get the advantage of the Burnham Air Conditioners?

No indeed. One or more can be used in connection with any existing radiator heating. All you do is simply replace a radiator with the conditioner. The same piping that does for one, does for the other. No cutting of walls or floors for grilles or registers. No ducts to be installed. Any heating men can install a Burnham Air Conditioning Unit in a few hours.

IRVINGTON, NEW YORK

Burnham Boiler Corporation

ZANESVILLE, OHIO

BALTIMORE, MD. 1201 Haubert St. BOSTON, MASS. (Cambridge) 298 Albany St. CHICAGO, ILL. 1038 South Kolmar Ave. ELIZABETH, N. J. 701 Spring St. CANADA

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SHANGHAI

These Burnham Heating Help Books

Sent Free



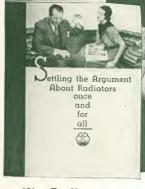
(1) Your Home How to Winter Air-Condition it

Be sure and send for this booklet. It gives you in a sincere, understanding way, various points and the different sides of the most important questions on Air Conditioning, as it applies to the comfort and health of your family.



(2) Automatic Cosy Comfort

It has mainly to do with heating with oil. Told in a friendly, folksy way, quite as if one of your neighbors had dropped in to talk it over. Gives you a clear idea of exactly what automatic heat does for you, in assuring you contentment of mind and comfort of body.



(3) Radiators

By all means send for this radiator printment. There is so much more to getting the right radiators and the right amount of heat from them, than you might think. There are plenty of illustrations and help hints. Am sure you will find things in it which if you don't happen to know, you will certainly want to. Might save money.



(4) Witching House

A delightful, personal, home-making experience as told by a man and wife. They bought an old Vermont Colonial farm house and fixed it up. To heat it was a vexing problem which he finally solved with her very important help. It's a truly charming human tale filled with unexpected help-hints. The way it mixes cards and cupboards, and heat and honey, is indeed illuminating.



(5) Lest You Forget

It starts by putting a string around your finger, and then tells you how it will help you from forgetting. Help you with the things, the remembering of which, helps to get the most heat, from the least coal, with the least bother. Of course, if you are going to burn gas or oil it doesn't fit into your picture.

BITTER HOMS in the making

RESEARCH LABORATORY

WHERE QUALITY BEGINS



Carey's Research Laboratory develops, improves and controls building material satisfaction and quality for you.



In this well equipped laboratory skilled technicians specialize in asphalt and asphalt roofing products.



Improving, heat insulation, mineral wool, Firefoil panels and asbestoscement products occupy full time here.



Testing and research room for asbestos paper, felt for roofing products; insulation cements and Careyduct.



Developing and bettering bituminous paints, plastics, expansion joint fillers, asphalt planks and flooring.

MATERIALS-DESIGNS AND METHODS

described in this book

roofs

Careystone Asbestos-Cement Shingles, the permanent fireproof roofing that never needs painting . .

Carey Asphalt, Individual Shingles-colorful, fire resisting . . .

Carey Cork-Insulated Shingles-combine roof and roof insulation-at roof cost

Carey Strip Shingles—attractive, economical . . .

Carey Rocktex (Rock Wool) Home Insulation—for year 'round home comfort.

floors

Carey Building and Sheathing Papers for use under flooring.

Carey Elastite Asphalt Tile for game rooms, porches, and sun decks.

Carey Rocktex (Rock Wool) for sound deadening, insulation and fireproofing.

side walls

Careystone Siding-in shingle and Clapboard units. Fireproof-never requires

Careystone Sheathing for use in dormers, panels and other exterior wall areas.

Careystone Wallboard for interior walls, ceilings, partitions. Carey Rocktex (Rock Wool) insulation for side walls. Carey Building and Sheathing Paper under siding.

partitions

Careystone Scored Sheathing—economical tile effect—for kitchen, breakfast room

and bathroom walls.

Carey Rocktex (Rock Wool) for sound deadening, insulation and fireproofing.

foundation

Carey Damp-Proofing and Waterproofing Materials for basement walls . . .

Careystone Wallboard—applied to basement ceiling for fire stop.

heating system

Careycel Insulation for hot water and steam heating systems . . .

Carey Tank Jackets—for hot water tanks . . .

Carey Pipe Covering for cold water lines, soil pipes, etc.

Careycel Insulation for Air Conditioning Ducts . . .

Careyduct—the all asbestos Air Conditioning Duct.

sidewalks and drives Carey Expansion Joint—to prevent unsightly cracks in concrete work.

bathroom cabinets and accessories

MIAMI-CAREY Cabinets-combine modern design with utility and rugged construction—a complete line of accessories.



We are as close to you as your telephone for these and other quality building materials

Your Carey Dealer

TODAY MORE THAN EVER BEFORE

RESEARCH AND DEVELOPMENT SINCE 1873 MAKES YOUR HOME BETTER

AND MORE ECONOMICAL TO BUILD AND MAINTAIN

You can buy more house for your dollar today than ever before, and The Philip Carey Company has played an important part in bringing this about.

In 1873 Philip Carey became so convinced that there was a market for a product better than anything known up to that time that he backed his idea by starting its manufacture. That was the beginning of the business now known all over the world as The Philip Carey Company.

With such a beginning it is no wonder that continuous effort to maintain the position thus established gradually crystallized into a recognized policy for the guidance of everyone connected with the Company. This may be stated as a determination to produce a product, made of the finest known raw materials, by the most dependable manufacturing methods, at the lowest price consistent with those qualities.

The pages of this book show you many products about which your Carey Dealer will be glad to give you full information. Call him—you will find him eager and ready to serve you.



In addition to our own extensive research, Carey has maintained Fellowships in the Mellon Institute of Industrial Research for the past twenty years. Many important developments in Carey Products have been perfected as a result of continuous research conducted by this well-known institution.



other people look at roofs first ... and so should YOU!



NEXT time you walk or drive down the street, notice that you frequently see the *roof* of a house before you are conscious of any other part.

A proper roof is like a hat that supplements and completes the attire of a well-dressed person. Because the roof is so conspicuous, it should be attractive and in complete harmony with the style and color of the home. Because of the service it must render, it should be of a quality about which there can be no question.

The roof has a responsibility next in importance to the foundation. It must protect everything under it, from the furnishings to the building itself. The roof, therefore, is NOT a safe place to practice "cost cutting" when you build.

Through years of research and experience, Carey has developed a line of roofs from which you may select the one that will best harmonize with the architecture of your home. Carey roofs are available in a wide range of prices to suit any building budget. But regardless of which Carey roof you choose, you are sure of maximum service for every dollar invested. Extra value is a fundamental of every Carey roof.



TO THE LEFT—reproduction of a direct color photograph of an attractive white brick Colonial home—roofed and protected for all time with Careystone Asbestos-Cement Shingles.

ROOFS THAT COVER YOUR INDIVIDUAL NEEDS

Careystone

ASBESTOS-CEMENT SHINGLES

Made of the imperishable materials, asbestos fibre and Portland cement, Careystone Shingles possess the peculiar property of increasing in toughness upon exposure to the elements. They are fire-proof, wear-proof and rot-proof—permanent as stone and, in appearance give an exact reproduction of wood grain—a beautiful roof that never requires painting or other upkeep.

Careystone Strip Shingles in the Autumn Blend—a brilliant show of October's colors—reds, browns and tans.

Carey

CORK-INSULATED SHINGLES

Provide a durable, storm-proof roof plus insulation against heat and cold—at a cost very little above that of ordinary asphalt shingles. Where extra roof insulation is desired, this shingle affords considerable economy, since no additional labor or material is required in laying. The Cork-Insulated Shingle makes a finished roof of pleasing appearance, with deeper shadow lines due to extra thickness.

Individual Carey Cork Insulated Shingles in Dixie

Carey

ASFALTSLATE SHINGLES

Famous for their long wearing quality and natural beauty. They are proof against ordinary fire risks—low in upkeep, as they never require painting. Asfaltslate Shingles, both individual and strip, are manufactured on a base of tough felt, thoroughly saturated and coated with asphalt. To this is applied a layer of colored mineral granules, providing a durable wearing surface in natural colors—a roof of lasting beauty.

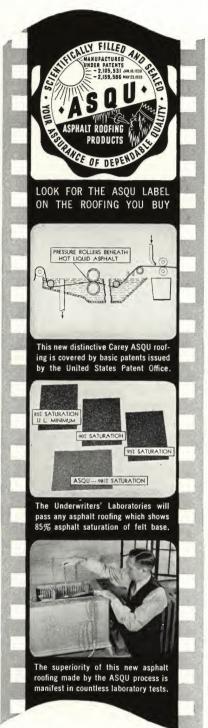
Carey Asfaltslate Strip Shingles in the Red Blend.







STEP IN AND SEE ACTUAL PANELS OF THESE SHINGLES AT OUR OFFICE—OR WE WILL BRING THEM TO YOU. YOUR CAREY DEALER



Insist on

This Label is for your protection. It takes the gamble out of roof buying. It is your assurance of roofing whose quality is controlled hour by hour, as it is made—asphalt roofing whose longer life and trouble-free service may be known in advance before you buy it.



For Longer Life - Lower Cost Per Year

The patents under which Carey is licensed to make ASQU roofing, cover the roofing and also cover the process of and apparatus for treating the felt in an asphalt bath until it is saturated to at least 981/2% of its maximum capacity.

A great many products meet the Underwriters' Laboratories requirement; some will show 90% saturation and a few as high as 95%, but due to the patented method of making ASQU asphalt roofings, a saturation of 981/2% of the maximum is attained.

Finished ASQU asphalt shingles are tested every 15 minutes by specially trained inspectors in the plant itself. Identical samples are cut from these plant samples and double-checked in the laboratory to make sure that the quality of ASQU roofings is uniform at all

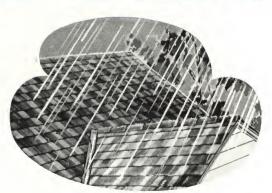
Carey Asphalt Shingles and Roofings have long been noted for their exceptional wearing qualities, natural beauty, freedom from any need of painting and for their fire retardent qualities. But today, however, the product being manufactured will give even longer life—at a lower cost per year because this patented product manufactured by an improved patented process utilizes patented apparatus involving a new principle in the manufacture of Asphalt Roofing. This new principle is largely responsible for the extra life that is built into Carey ASQU roofings. This improvement adds to the value you receive when purchasing Carey Roofings, since you get extra years of satisfactory service. This is one of the most important developments in the asphalt roofing industry in a generation.

ADDS YEARS OF EXTRA PROTECTION AND BEAUTY...MORE SECURITY AGAINST THE ELEMENTS!



SEND FOR FREE BOOK

Send for FREE Book. It tells the story of ASQU Roofing—why and how this improved patented product and patented process developed—what they mean to you in roofing economy. This is BIG NEWS—send for your copy today.





Budget and Architecture Meet on a Common Ground with Carey

ASFALTSLATE SHINGLES

Conventional in design, the Carey Asfaltslate Shingle is adaptable to many architectural treatments . . . assures a roof of long life and distinctive beauty at reasonable cost.

Made especially rugged and substantial to insure extra years of trouble-free service. A layer of colored mineral granules provides a beautiful and durable wearing surface. Full three thickness coverage assures maximum roof protection.

Asfaltslate Shingles are proof against all ordinary fire risks, such as flying sparks from chimneys and burning brands from neighborhood fires. You protect your home against fire, weather and time, when you roof with Carey Asfaltslate Shingles.



The better grades of Carey asphalt roofing are ASQU patented products and are manufactured under the improved patented ASQU process and apparatus. The ASQU label is your assurance of added life and value in the asphalt roofing products you buy.

THE CERAMIC GRANULES used in the manufacture of Carey Shingles are made by applying a high-temperature, fusible, colored glaze to a mineral granule base and firing the glaze into the surface of the granule at a temperature of around 2000 degrees F. The mineral pigment colors and the firing conditions are very similar to those used in firing the decorative pattern on china or porcelain dishes. The color of the granule is just as permanent. It cannot fade or wash off.



YOUR CHOICE OF HARMONIOUS

Dependable, waterproof protection will always be the first essential of a good roof.

Yet the roof must satisfy another important requirement—appearance. Because the roof is usually the largest single area in the house and the dominant feature of its exterior, it should be in complete harmony both with the style of architecture and the color of the building.

Today, more than ever before, outside appearance is an important factor in home value. The thoughtful home buyer wants a roof that emphasizes the character of the home—that gives it dignity and charm. Here, color plays a vital part.

Carey Shingle colors have been developed through years of careful study and experience in satisfying individual preferences of home owners and the rigid requirements of architects.

Carey Shingles are available in an adequate range of nature's own colors—warm reds, cool greens and beautiful blended tones. These colors harmonize with architecturally correct home exteriors and through combination of colors, an almost endless variety of effects can be secured.











The Harvest Blend—one of the attractive blends available in the Carey Asphalt Shingle line. Others are Green Blend, Red Blend, Russet Blend, Emeralblend, Verdeblend, Azure Blend and Brown Blend.

Carey Cork-Insulated Shingles

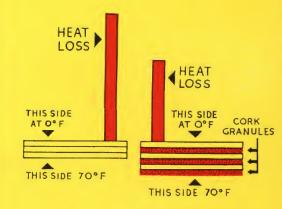
GIVE TWO VALUES AT ONE COST

This is the only asphalt shingle with outside mineral surface for weather protection; cork underside for insulation. The cork layer acts as a barrier to heat and cold; makes the home several degrees cooler in summer and correspondingly warmer in winter.

This effective roof insulation is automatically applied when the roof is put on, providing extra insulation without extra cost of labor.

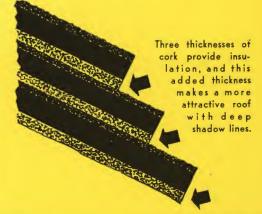
Fuel Savings Pay the Bill—A study of actual roof conditions shows that for a roof of average area (15 squares), with an average difference between indoor and outdoor temperature of 40 degrees F., the home owner who burns fuel at \$9 per ton can save during a single heating season the difference in cost between an ordinary asphalt shingle roof and a Carey Cork-Insulated roof . . . and these savings continue year after year.

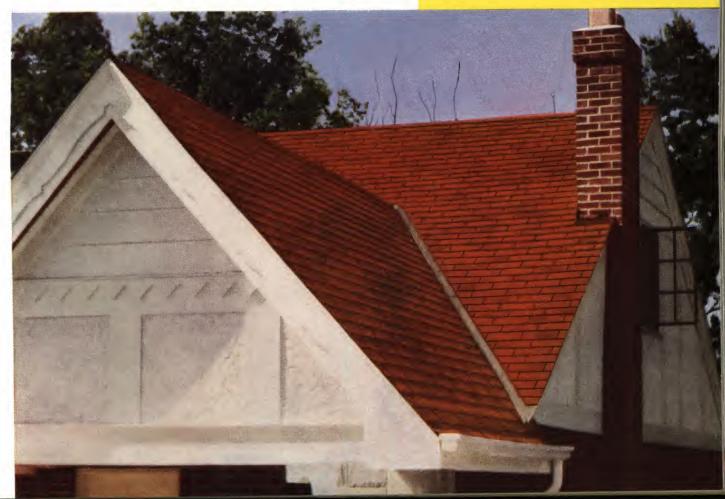
Carey Cork-Insulated Shingles are approved by Underwriters' Laboratories—assure a beautiful and distinctive roof; long, dependable service.



A GRAPHIC REPRESENTATION of the heat loss* through three layers of Carey Large Individual Shingles (5 inches exposure and spaced 3/4 inches apart) compared with an identical application of Carey Cork-Insulated Large Individual Shingles, under the same test conditions, namely, a temperature difference of 70 degrees F, between the inner surface and outside air.

*B.T.U. heat loss per square foot, per hour.





NEW CAREYSTONE ASBESTOS



The Careystone Strip Shingle in the Green Tri-Tone Blend is a harmonious grouping of olive, shamrock and nile green panels, so placed as to give the effect of individual shingles with authentic wood grain texture.

LOCAL DEALER SERVICE

TRI-TONE BLENDS

WE find that many builders will have nothing else but Careystone Asbestos-Cement Strip Shingles. You wouldn't think of building a home without a permanent foundation. Can you afford to build without a permanent roof?

A permanent roof reduces your upkeep and repair expense; insures you against costly leaks; against fire hazards; lowers your insurance rates to the minimum; saves you the cost of ever having to rip off old shingles and pay for a new roof. Then, too, there's a feeling of security in living

under a roof you know is fireproof—a roof on which sparks, embers, even burning brands fizzle out harmlessly.

All these advantages—these savings—are yours to enjoy when you roof your home with Careystone Asbestos-Cement Strip Shingles. Once laid, your roof worries are over.

This original, asbestos-cement, strip shingle provides new architectural beauty.

Lay these new Tri-Tone blend strip shingles as you will, the result will be a roof with perfectly blended tones. More important, you also get the realistic shingle effect of random widths and staggered butts at a new low, applied cost.

This new effect is possible because these shingles are furnished in four types of five-panel strips. Each panel, on each strip, has its own individual, authentic wood grain texture, a separate color tone and a corresponding staggered butt. Each of the four types has a different combination of tones on its panels. Regardless of how the four strips are laid, even without special supervision or highly skilled mechanics, there can be neither bunching of tones or patterning. Write for samples and complete details. Address department 20.

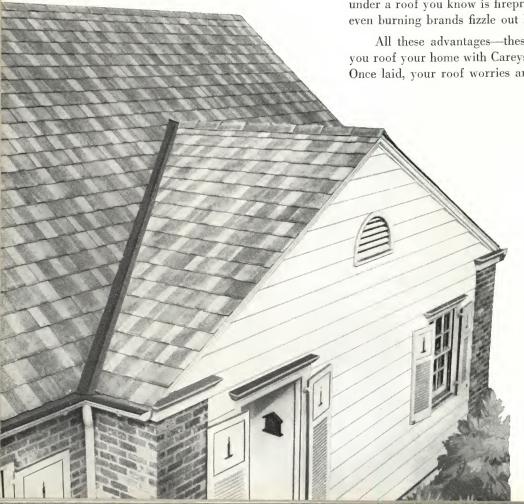




TABLE OF DESIGNS AND METHODS

GROUP	SHAPE	NAME	SIZES, IN.	EXPOSURE	HEADLAP.	WEIGHT PER SQ., LB.	UNDER- WRITERS' LABEL
GNUUF	SHAFE	NAME		EXPOSURE, IN.	IN.	LB.	LABEL
Careystone ASBESTOS- CEMENT SHINGLES	(A) (B) (D)	(A) Duplex Shakes No. 35	16 x16	7	9	465	Class "A
		(B) Careystone Strips No. 20 (Scotch-American)	12 x24	9x20	3	260	Class "B"
		(C) Scotch No. 30	16x16x ³ / ₁₆	12x13	3	290	Class "B"
		(D) French No. 70	16×16×5⁄32	13	3	260	Class "B"
Careystone ASBESTOS- CEMENT SIDING	(E) (F)	(E) Old Colony Duo Edge— No. 210	12 ×24	10½x24	$1\frac{1}{2}$	180	
		(F) Duo ''8''—No. 220	9½x24	8×24	$1\frac{1}{2}$	190	
	(G)	(G) Colonial Clapboards	½x9x96	7	2	325	
ASPHALT INDIVIDUAL SHINGLES *Plain Back †Cork Back	(H) (J)	(H) Asfaltslate	12 ×16	5	6	325* 345†	Class "C
			9 x12¾	4	$4\frac{3}{4}$	253	Class "C
		(I) Careylok (Standard)	12 x16	10	2	138*	Class "C
		(I) Careylok (Extra Heavy)	12 x16	10	2	162*	Class "C
		(J) Careylok (Hexagonal)	16 x16		2½	138*	Class "C
ASPHALT STRIP SHINGLES *Plain Back †Cork Back	(L) (K)	(K) 2 Tab, Hexagonal	11⅓x36	$4\frac{2}{3}$	2	167*	Class "C
			12½x36	$4\frac{2}{3}$	3	186*	Class "C
			14½x36	$4\frac{2}{3}$	5½	225*	Class "(
		(L) 3 Tab, Square Butt	12 x36	5	2	210* 235†	Class "(
			15 x36	5	5	250* 270†	Class "(
12		(M) 4 Tab Square Butt	10 x36 12½x36	4 4	2 4½	210* 266*	Class "C

ANSWERS TO OTHER ROOFING PROBLEMS

Roll Roofing—To meet the demand for good low-priced quickly applied roofings Carey offers a complete line of ready-to-lay Roll Roofings—in various weights and finishes—in a price range to meet every need . . . from the smallest temporary shed to the more permanent building. . . .

Roll Roofings in colorful mineral surfaced finishes for use on garages and other buildings where appearance is important. . . .

Other types of Roll Roofings in black finish for jobs where protection is the primary consideration.

Carey Roll Roofings are packaged in rolls containing sufficient material to cover 100 square feet of roof surface, allowing for laps. Nails and cement are packed inside each roll

BUILDING PAPERS AND FELTS—Carey Water-proof Building Paper keeps out dampness, grit, wind—assures a cleaner, more comfortable home. Available in various types and weights to meet practically every need in modern home construction.



shingles are not practical, Carey Built-Up Roofs are recommended. If your home plan calls for flat roof construction, be sure to specify these time-tried Carey Built-Up Roofs. As the name implies, these roofs are built up, layer on layer, to meet the requirements of each job. Your architect or builder will be glad to determine the correct specifications for your building. For more than fifty years, Carey Built-Up Roofs have been protecting many of America's largest commercial buildings . . . evidence these products will serve you well.



THE Whitest OF THE WHITE



Careystone

OLD COLONY DUO-EDGE No. 210

(Shown Above)

This is laid with thatch butt exposed. In the manufacture of this siding, special care is given to faithfully reproducing wood grain and to bring out the effect of random width, individual shingles.



CONSIDER ALL THESE ADVANTAGES OF



ASBESTOS-CEMENT SIDING

- 1. Low First Cost
- 2. No Upkeep expense
- 3. Painting not essential
- 4. Warmer in Winter
- 5. Cooler in Summer

- 6. No decay
- 7. Distinctive appearance
- 8. Does not curl or warp
- 9. Fireproof
- 10. Insect Proof

Those who keep pace with Modern Developments in Home Building Materials say . . .

BEFORE YOU BUILD . . . CONSIDER



ASBESTOS-CEMENT SIDING

When you specify Careystone Siding, you protect your building with a material that is fireproof and wear-proof—impervious to moisture—as permanent and unburnable as stone itself.

Can you imagine a more desirable material for protecting the outside walls of *your* home?

Available in a variety of shingle styles and in the time-honored Colonial Clapboards, Careystone Siding is perfectly adapted to many popular types of architecture. It may be had in styles and colors to meet every architectural requirement or personal taste.

Careystone Siding in Duck's Back White—See for yourself this newest development in pure white. It is whiter than white paint and stays white even during a soaking rain. Protects your building like a duck's back keeps its downy undercoat dry and warm.

Careystone Siding "pays its way" in beauty, permanent service and freedom from upkeep.

IDEAL FOR MODERN OR TRADITIONAL ARCHITECTURE



The modern trend in architecture has been put to its most effective use in this attractive residence in the Carolinas. The architect has retained the beauty of his design through the use of Colonial Clapboard in the solid Ducks-back White Careystone.



Careystone Old Colony Siding was selected for exterior finish of this traditional home overlooking the mountain city of Chattanooga, Tenn. The soft gray color effectively trimmed in white with blue shutters presents a very pleasing appearance.

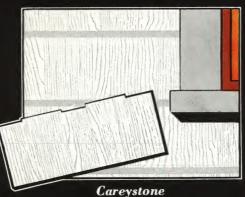
CAREYSTONE SIDING FOR PERMANENCE, SERVICE AND BEAUTY



Careystone

OLD COLONY DUO-EDGE No. 210

This is a double edge unit, made with thatch butt on one edge and wave line on the other. This illustration shows the pleasing effect by exposing wave line. Illustration on opposite page shows thatch butt exposed. A unique treatment may be achieved by using both the wave line and thatch butt exposures on the same building.



Careystone

DUO "8" SIDING

This is a double edge unit, made with thatch butt on one edge and a straight line on the other. May be laid with either edge continually exposed, or alternated. Affords almost unlimited opportunity for planning distinctive exterior wall treatment. Ten or more separate and unusual patterns may be developed by combining this unit with the wider Old Colony Siding. Straight line exposure is shown.



Careystone

COLONIAL CLAPBOARD SIDING

Readily adaptable to almost every type of frame design. Its outstanding merit is substantiated by repeat orders for a new housing project using approximately one-half million square feet. A pleasing contrast is achieved when Colonial Clapboard Siding is used in conjunction with other types of Careystone Siding Units, in upper story or gable end treatment. Ideal for modern trends in architecture, yet completely traditional in design.



DRY, HEALTHFUL, USEFUL BASEMENTS



CAREY DAMP-PROOFING AND WATERPROOFING

Leaky foundation walls present an extremely troublesome and expensive problem. Leaky foundation walls present an extremely nouncesome and expension become rusty or moldy and equip-Household goods stored in a damp basement soon become rusty or moldy and equipment (such as heating plants) rust out and require replacement. If you plan to in your basement" with recreation room, play room or work shop, it is of utmost importance to make sure that your basement will be dry and healthful.

CAREY PERCOPROOF COATING

Carey Percoproof Coating penetrates the pores and seals the outer surface of the basement wall preventing the transmission of dampness and water through the wall. It deflects the ground moisture and water down the outer edge of the wall to the drain tile which should always be placed around the outside of the footings.

This liquid coating applied with a brush is quite satisfactory in high or moderately well drained land with some slope and not too close to the level of rivers, lakes and other bodies of water. It comes in cans ready for use and is easily applied. It is far cheaper to apply it when the building is being erected than to "wish you had" after the earth has been thrown back. Then it would be quite expensive to damp-proof the basement.

CAREY PLASTIC WATERPROOFING COMPOUND

If you are planning to build on low, level, heavy or soggy ground, where the surface drainage is none too good, you will need Carey Plastic Waterproofing Compound, a heavier damp-proofing material. The material also has waterproofing properties if used not more than 10 feet below the ground level.

It provides a thick, heavy protection coat when applied with a trowel. Of course, the footings should have drain tile to carry away excess water. Exterior waterproofing is a necessity with a concrete block, stone or brick foundation.

WATERPROOFING SERVICE

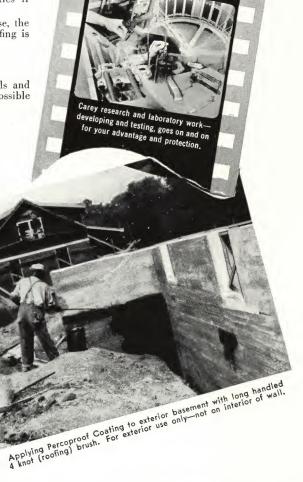
The Philip Carey Company manufactures many types of waterproofing materials and will be glad to give you the benefit of their experience in providing the best possible waterproofing protection to meet your particular needs.

Applying plastic Waterproofing Compound to exterior basement wall.

Applying plastic trowel would be even faster. For exterior use only

A flat plasterer's trowel woll.

A flat plasterer's wall.



Carey tests are critical performance

tests, which subject the finished pro-

duct to the severest of conditions.

Over half a million tests to guard Carey's high quality standards have

been conducted in the past few years.





Keeps Heat Inside in Winter Keeps Heat Outside in Summer Saves up to 30% on Fuel Bills No Upkeep Cost

CAREY ROCKTEX is the modern Rock Wool Home Insulation. A 4-inch thick blanket of Rocktex installed in the walls and ceiling of your home is as efficient in stopping the flow of heat as a solid brick wall about five feet thick.

Fuel savings are definite because Rocktex stops the loss of heat that costs you so much to provide. Rocktex also effects important savings in reducing the size of the heating unit required to heat an uninsulated building. The saving in cost of the heating plant has, in many cases, paid for the insulation.

HOME INSULATION . . . A

Since Carey Rocktex reduces fuel consumption up to 30 % or more, it is an important item in household economy. In many cases, it will go far toward paying the taxes on the property.

Carey Rocktex Insulation eliminates drafty rooms, cold corners and cold floors in winter. By maintaining even temperatures, it reduces rapidity of air change in the home, thereby diminishes evaporation of moisture in the air and helps to conserve the proper humidity so essential to health.

Carey Rocktex gives you increased fire protection. You don't have to push your furnace so hard in cold weather; thus you eliminate one of the greatest fire hazards. Rocktex eliminates lath marks and unsightly dark streaks on ceiling and walls. You don't have to redecorate so often, another important saving. Rocktex also increases property value. A Rocktex Insulated home is more livable—rents to better advantage . . . sells at a substantially better price.

Carey Rocktex is manufactured from mineral materials; therefore is permanent. It is fireproof . . . water repellant . . . odorless . . . highly efficient . . . light in weight . . . will not rot or decay . . . outlasts the building.

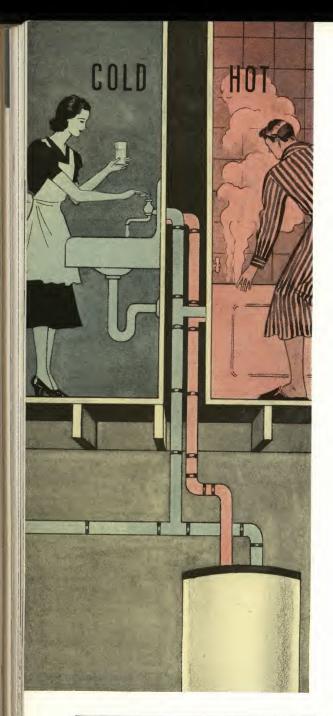
Carey Rocktex is available in forms for easy application in any type of building, old or new. Insulate with Carey Rocktex—it returns to you in savings more than it costs.

REGARDLESS OF WEATHER CONDITIONS INSURE YOURSELF OF COMFORT



DERN NECESSITY FOR COMFORT AND ECONOMY





Carey INSULATIONS

Uncovered steam or hot water pipes act as radiators. They waste heat in basement, hollow walls and other places where heat is not needed.

USE CAREYCEL FOR YOUR HEATING SYSTEM

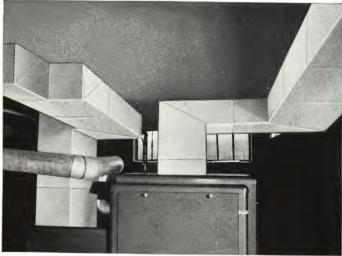
Careycel Asbestos Insulation is an exclusive, patented Carey Product, developed especially for hot water and steam heating systems. Impartial tests, made by a leading testing laboratory, demonstrated a 30 % reduction in heat loss over the air cell type of covering ordinarily used. Put Careycel over all pipes leading from boiler to radiator; cover boiler with Careycel Asbestos Blocks. The savings in fuel will pay for the insulation and continue to pay you dividends in fuel saved year after year.

A CAREY TANK JACKET KEEPS HOT WATER HOT

Cover your hot water heater with a Carey Tank Jacket. The water will heat quicker and stay hot longer. The pipes leading from water heater to kitchen and bathroom allow the hot water to cool. Cover these pipes with Careycel Insulation and keep the water hot, right up to the faucets. This will save you money on water and gas bills; give you more hot water when you want it.

CAREY PERFECTO PIPE COVERING FOR COLD WATER LINES

Cold water lines usually run parallel to hot water lines through the walls to bathroom and kitchen. These pipes are warmed by the adjacent hot water pipes and it is usually necessary to run the cold water for some time to get it cool enough to use. Cover your cold water lines with Carey Perfecto Covering—have cool water right up to the faucets —reduce your water bills.



Note the neat finished appearance of this typical residential installation of Careyduct.





Illustrating simplified method of constructing fittings from standard Careyduct parts.

FOR THE HOME

ELIMINATE NOISY WASTE PIPES

You know how objectionable it is—and sometimes embarrassing—to hear waste water gurgling through the soil pipes between the partitions. This is easily overcome by insulating the soil pipes with Carey Perfecto Woolfelt Pipe Covering. Make Carey Pipe Covering a part of your heating and plumbing specifications. The work must be done before walls are closed and plastered.

ELIMINATE SWEATING PIPES

Like many home owners you probably wish to make use of your basement as a recreation room, work shop, or laundry. Be sure to cover cold water lines with Carey Perfecto, the non-sweat insulation. It will eliminate dripping from pipes.

SPECIFY CAREYDUCT FOR YOUR AIR CONDITIONING SYSTEM

If air conditioning is included in your new home, be sure to specify Careyduct—the modern asbestos insulated duct. Careyduct is fireproof; permanent; will not rust or decay; hushes fan noises; insures uniform high efficiency in the whole duct system. Size for size, Careyduct is much cheaper than insulated metal. Easily erected; easily decorated.



CAREY ELASTITE ASPHALT TILE

If the plans for your new home include a game room or a sun deck, we suggest that you investigate the advantages of Carey Elastite Asphalt Tile for surfacing these areas. This product is durable and resistant to water and fire. Furnished in black and red pieces either ½" x 12" x 24" or ½" x 12" x 12".



CAREY EXPANSION JOINT PREVENTS UNSIGHTLY CRACKS

Variations in temperature cause concrete work to expand and contract. To prevent breakage and cracks due to this expansion and contraction, specify Carey Elastite Expansion Joint to be used in all concrete work about your home. Carey Expansion Joint is available in two types:

A. Standard Asphalt Joint consisting of two layers of felt between which is interposed an asphaltic composition.

B. A sponge rubber type of joint that is resilient. When compressed by the expansion of concrete, it will not extrude.

MIAMI BATHROOM CABINETS AND ACCESSORIES... Glorify the American Bathroom

OF ALL the fixtures and appointments that go into the modern bathroom, none play so important a role in providing beauty, distinctive charm, as well as utility, as the Cabinet and Accessories.

Bearing this in mind, MIAMI engineers and designers have created a line of Bathroom Cabinets that has become popularly and aptly known as "America's Finest."

MIAMI Cabinets are backed by more than twenty years of manufacturing experience. They are ruggedly constructed of finest quality, heavy materials and carefully finished to retain their beauty and brilliance indefinitely and to render lifetime service under hard use. Electric lighted cabinets are completely wired at the factory.

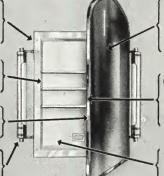
The Complete Line includes a wide variety of exclusive, distinctive models . . . ranging from luxurious cabinets and ensembles for the stately mansion to simple cabinets for the modest cottage.

Only a few of the many models are shown in the following pages. Should you desire more detailed information, or if you have a bathroom cabinet problem to be solved, write to us.



ONLY MIAMI CABINETS GIVE YOU ALL THESE IMPORTANT FEATURES:

- 1. Rigid one-piece body of heavy Armco Steel—specially prepared for the finest finish
- 2. Sanitary—no open seams to start rust or collect dust
- 3. Noiseless Doors heavy brass and chromium, no-tarnish hinges
- 4. Scientifically designed lights with adjustable non-glare shades



- 5. "A" Quality Mirrors (in accordance with government specifications) electrolytically copper backed
- **6.** Brilliant chrome mirror frames; effective lighting; master craftsmanship in every detail
- 7. "Crystal Snow" the finish that will not retain a stain

THE MIAMI CABINET DIVISION

THE PHILIP CAREY COMPANY . MIDDLETOWN, OHIO

The IMPERIAL

Here is MIAMI'S latest development in Modern Bathroom Cabinets—an exclusive, distinctive De Luxe Model for those of discriminating taste. The frame around the entire cabinet is brass, chromium plated. Spacious side cabinets, one on each side of the large recessed mirror, have chromium framed mirror doors swung on brass, chromium plated pianotype hinges. Cabinets are finished inside in white Crystal Snow and are equipped with three glass shelves, stainless steel shelf supports and tooth brush holders. The shelf under the center mirror is white opal.

The inside walls projecting outward from the center mirror are faced with mirrors that match the large center mirror. Two light bulbs concealed behind the opal flash-glass panel at top of the center mirror provide perfect reflected light for shaving or dressing the hair. Regular mirrors are "A" quality silver, copper backed, guaranteed for five years against silver spoilage. The new rose (or flesh) colored mirrors may be had if required.

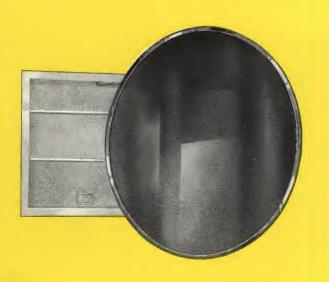
The overall size is 32" x 32 $\frac{7}{8}$ "; the wall opening, 31 $\frac{7}{8}$ " x 31 $\frac{1}{2}$ " x 4 $\frac{3}{8}$ "; the center mirror measures 18" x 27 $\frac{7}{2}$ "; the two side mirrors, $5\frac{1}{16}$ " x 30 $\frac{1}{16}$ ".

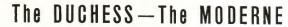
LOUIS XIV



The Louis XIV unit is not merely a bathroom cabinet, but an ensemble of beautiful bathroom furniture. The center unit consists of a large recessed mirror flanked by narrow full length mirror panels that extend forward. There is no cabinet behind it. The frame around the entire center unit is brass, chromium plated. The mirrors are genuine "A" quality plate glass, copper backed, guaranteed for five years against silver spoilage. The center mirror may be either the regular "A" quality silver mirror or the new rose (flesh) color. The small side mirror panels on the center unit are optional as to color—either rose (flesh), blue, gun metal, green or regular silver.

The lights, concealed behind the white ground glass panel at the top of the center unit and behind the two narrow side mirrors, are arranged so as to reflect proper illumination to the center of the mirror. Light is also reflected out into the room through the top front panel.





These two popular cabinets are identical, except that the *Duchess* has the mirror set in a beautiful circular frame of *brass*, *chrominum* plated, styled to match today's modern chromium plated bathroom fixtures and accessories.

When installed in the wall, the *Moderne* and the *Duchess* look like beautiful circular mirrors hung on the wall. The illustration of the Pompadour at the left shows how both models appear when the door is closed. The ingenious hinge on which the door is swung permits it to be pulled outward over the lavatory so that when opened the mirror is only a few inches from the face—an ideal arrangement for shaving or dressing the hair.

The cabinet box of both the Duchess and Moderne is constructed of heavy-gauge ARMCO steel. The body and door backs are finished in Miami Crystal Snow, guaranteed not to retain a stain or to discolor with age. Equipped with two adjustable plate glass shelves, and Miami chromium plated razor blade drop. Mirror size is 26" circle; wall opening, $16\frac{1}{2}$ "x $16\frac{1}{2}$ "x $4\frac{1}{4}$ ".



The POMPADOUR

The *Pompadour*, an ideal unit for guest bathroom, the downstairs lavatory or the dressing room, consists of a 26-inch circular mirror and glass-lined recessed shelf. There is no cabinet behind the circular mirror. The steel back on which the mirror is mounted is fitted for concealed hanging on the wall. The new rose (flesh) color mirror is available at slight additional cost.

The frame around the lower recessed shelf is brass, chromium plated.

The shelf itself is lined with mirrors. Colors available are blue, green, gun metal, rose (flesh) or regular silver. The wall opening for the lower shelf is 23%"x7%"x4%".



The POWDER PUFF



The custom-built *Powder Puff* unit, illustrated on the left, adds the final touch to the modern powder or dressing room. The outside frame is *brass* finished in lustrous *chromium plate*. The large center mirror is genuine "A" quality plate glass in either the new rose (flesh) color or regular silver, as desired.

The small mirrors on either side of the large center mirror are optional as to color—either rose (flesh), gun metal, blue, green or regular silver. The recessed lower shelf may also be had in the same colors as the small side mirrors or in regular silver.

The light brackets are concealed behind the two small side mirrors and are so located that the light is reflected onto the large center mirror through ground glass panels. The overall size is $35"x41\frac{1}{4}"$; wall opening, $34\frac{3}{8}"x40\frac{5}{8}"x4\frac{1}{2}"$.

POWDER ROOM In the home of today, the Powder Room is almost as essential as was the bathroom in the house of the late nineties. Equipped with the beautiful Miami "Powder Puff," it attains the utmost in completeness and distinctiveness.

MIAMI CABINET FITTED WITH LIGHT BRACKETS No. 2

TUBULAR LIGHT BRACKETS

for MIAMI CAREY CABINETS

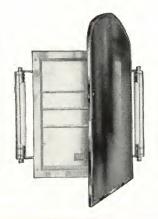
MIAMI-CAREY Cabinets fitted with new and distinctive chromium plated, tubular light brackets bring new beauty to your bathroom lighting at an attractive saving in cost. Tubular Light Brackets Nos. 1 and 3 are exclusive with Miami. The brackets are correctly located to concentrate light at the point where it is most needed and yet provide sufficient illumination for the entire bathroom.



MIAMI CABINET FITTED WITH LIGHT BRACKETS No. 3

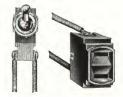
TUBULAR LIGHT BRACKETS No. 2

The Miami Cabinet illustrated above is equipped with Bracket No. 2. The Cabinet at the right is equipped with No. 1 Tubular Light Bracket. This bracket has the adjustable *chromium plated* shields. The glass shade over the bulb is opal. Suggested for the larger, more elaborate bathroom.



TUBULAR LIGHT BRACKETS No. 3

The No. 3 Tubular Light Brackets are designed to take a T-8 frosted bulb, either 40 or 60-watt. This bulb is available at all electric shops. There is no glass shield over the bulb. The frosted light bulb itself serves the purpose. No. 3 Tubular Light Brackets have chromium plated shields around the light bulbs, adjustable in all arcs of a 180° angle.



SWITCH AND OUTLET

All cabinets ordered with light brackets attached are fitted with switch and electric convenience outlet. They are fitted on the return flanges of the cabinet.

TOWEL SUPPLY AND UTILITY CABINETS

MODEL 510-A

Designed for the luxurious bathroom. The "A" quality mirror, set in a beautiful *chromium* plated frame, is copper backed, guaranteed for five years against silver spoilage. The heavy, air cushioned door is swung on a brass, chromium plated piano hinge. The cabinet and door back are finished in Miami Crystal Snow, guaranteed not to retain a stain nor to discolor with age. Five glass shelves are furnished. Mirrored door also serves as a full-length bathroom mirror. The wall opening is 17¾"x57¾"x8"; mirror, 20"x60"; overall 20¼"x60¼"x85%".



MODEL 510-A

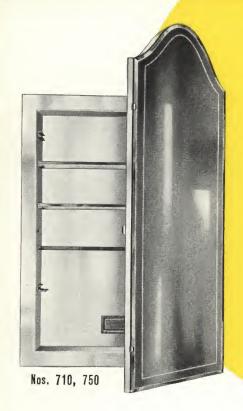


MODEL 500

This cabinet, smaller than the No. 510-A, is designed and constructed for the less pretentious bathroom where extra storage space is also required. The entire cabinet, including the door, is constructed of ARMCO selected steel. Five glass shelves are furnished. The door is swung on three brass, chromium plated hinges. There is no mirror in the door. The cabinet is finished in Carey first quality baked enamel. White is the regular finish. At additional cost the unit may be had in any color desired. The wall opening required is 14%"x34½"xx6"; the overall size is 18"x37¾"x6¾".



MODEL 500



CABINETS

with

GOTHIC TOP MODELS

The classic beauty of these two Carey Cabinets with full mirror door is now available for the modest home and apartment at new all-time low prices. We are able to offer these two new and different Gothic models at such prices only because of improved manufacturing methods.



Nos. 2010, 2020

Suggested for the bathroom where arches or curves are used. No knob, hardware or portion of the cabinet is visible to indicate that a spacious cabinet is hidden behind the door. Plain bevel edged or mitered line mirror available. Made in two sizes.

-														
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	710	750
Mirror	16"x26"	18"x30"
Wall Opening		15¾"x21¾"x4¼"
Overall	16"x26"	18"x30"
Return Flange	1/4"	1/4"

The Gothic Top Model shown above has a *stainless steel* frame around the mirror, absolutely non-rusting and may be kept clean and highly polished just by rubbing with a clean, dry cloth. *Stainless steel* is the perfect match for chromium plated bathroom fixtures; hence, this Gothic model is particularly recommended for bathrooms fitted with chromium plated fixtures where the budget does not permit the purchase of higher priced chromium plated models.

SPECIFICATIONS

	No. 2010	No. 2020
Mirror	16"x26"	18"x28"
Wall Opening	13¾"x19¾"x3½"	15¾"x21¾"x3½"
Overall	165/8"x265/8"	185/s"x285/s"

THE ARISTOCRATS

The Aristocrat model illustrated below is designed for the home where price must be considered, but where quality is also taken into consideration. It was created by Carey engineers to embody both beauty of design and sturdiness of construction—at a moderate price. When the Aristocrat is set on the wall, it resembles an unusually handsome mirror. There is no knob, hardware or portion of the body visible.



SPECIFICATIONS

No. 660
Mirror
Wall
Opening $13\frac{3}{4}$ "x $19\frac{3}{4}$ "x $3\frac{1}{2}$
No. 670
Mirror
Wall
Opening 15\%\"x21\%\"x3\%

MASTER MODELS

The Master models are suggested for the bathroom where straight lines are required. The one-piece brass, chromium plated frame eliminates the necessity of ugly corner clips commonly used to cover up open joints. The cabinet body and door back are finished in the famous Miami Crystal Snow, noted for durability.

SPECIFICATIONS No. 1100 Mirror 16"x22"

Wall Opening 13¾"x19¾ x4¼ Overall 16¼"x22¼	,,
No. 1150 Mirror	,,
No. 1175 Mirror	,,

EQUIPMENT

Regular equipment includes three adjustable glass shelves, used, razor-blade drop, tooth brush racks.





No. 6000 SOAP HOLDER



No. 6001 TUMBLER HOLDER



No. 6002 PAPER HOLDER



No. 6004 SOAP HOLDER AND GRAB BAR

CHROMIUM BATHROOM ACCESSORIES

by MIAMI

BRILLIANTLY BEAUTIFUL

A few years ago, the bathroom fitted with chromium plated accessories was the exception rather than the rule. Today, the picture is different. Chromium plated bathroom accessories have arrived—they are the rule rather than the exception. WHY?

They are brilliantly beautiful. They match chromium plated fixtures. They add the final touch to today's bathroom. They are easier to install. Fitted with front flanges, they eliminate open joints. They will not crack or craze. They can be removed for replacement without damaging the finished wall.

Miami Accessories are manufactured of selected brass, over which is first applied a thick coating of nickel, and then a covering of hard chromium, thereby providing the "Everlasting Accessory."

When ordering Miami Accessories, be sure and specify the type of bracket required by adding the prefix "L" to the Model Number for the lug type. Add the prefix "S" to the Model Number for screw-on type.

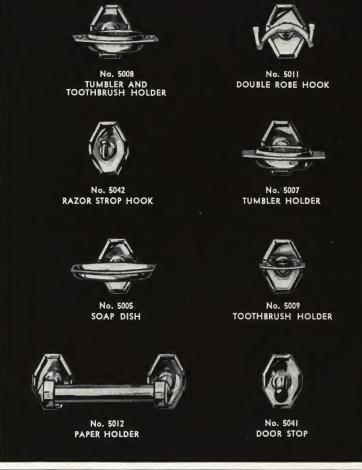
RECESSED ACCESSORIES

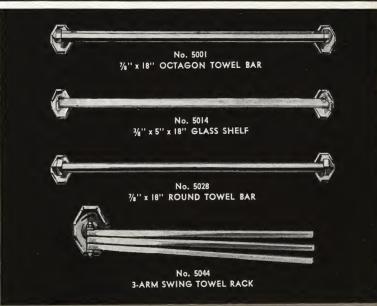
Accessories Nos. 6000, 6001, 6002, 6003 and 6004, shown at top, are recessed models. They can be appropriately built into any style wall by making arrangements in advance for their installation. When installed, they become a part of the wall itself. These recessed pieces may be had in the screw-on type or in the lug type. Wall opening on all recessed accessories $5\frac{1}{4}$ " $x5\frac{1}{4}$ ", overall size $6\frac{1}{4}$ " $x6\frac{1}{4}$ ".

No. 6000 soap holder and No. 6004 soap and grab bar are fitted with non-breakable trays.

PROJECTION ACCESSORIES

Projection type accessories, a few of which are illustrated on the right, are tightly secured with a new type of key plug. They are furnished with either "L" lug type brackets for installing the fixture permanently into the wall; or with "S" screw-on type brackets that fasten to practically any surface. The screws are concealed by the front plate of the bracket.







If you are not acquainted with a Carey dealer in your community write to the Carey branch nearest to you. You will immediately be placed in contact with your local Carey Dealer who is eager to serve you.

Atlanta, Ga The Philip Carey Company 666 Greenwood Avenue, N.E.
Baltimore, Md The Philip Carey Company1400 Moreland Avenue
Boston, Mass The Philip Carey Company 267 Medford St., Charlestown Dist.
Buffalo, N. Y The Philip Carey Company, Inc 155 Erie Street
Charlotte, N. C The Philip Carey Company 131 Brevard Court
Chattanooga, Tenn The Philip Carey Company 212 Volunteer State Life Building
Chicago, Ill
Cincinnati, Ohio The Philip Carey Company
Cleveland, Ohio The Carey Company5906-5916 Euclid Avenue
Columbus, Ohio The Philip Carey Company 100 W. Spring Street
Dallas, TexasThe Philip Carey Company3607 Main Street
Dayton, Ohio
Denver, Colo The Philip Carey Company 3343 Walnut Street
Detroit, Mich
Indianapolis, Ind The Philip Carey Company
Kansas City, Mo The Philip Carey Company 2028 Grand Avenue
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Minneapolis, Minn The Philip Carey Company 112 Lumber Exchange
New York, N. Y The Philip Carey Company, Inc Lincoln Building, 60 E. 42nd Street
Philadelphia, Pa The Philip Carey Company24th and Sedgley Avenue
Pittsburgh, Pa
Richmond, Va The Philip Carey Company Ninth and Bank Streets
St. Louis, Mo
Seattle, Wash The Philip Carey Company820 Fairview Place
Wheeling, W. Va The Philip Carey Company Chapline at 18th Street



The PHILIP CAREY COMPANY

GENERAL OFFICES

LOCKLAND, CINCINNATI, OHIO, U.S.A.



BUILD BETTER FOR LESS MONEY WITH

CELOIEX

BUILDING PRODUCTS

WHAT IS CELOTEX?

The word Celotex is a trade mark, registered in the United States Patent Office, and used to identify a large group of building products marketed by The Celotex Corporation through your local Celotex Dealer. Among the products described in this book are:

CELOTEX VAPOR-SEAL INSULATING SHEATHING Page
Used in place of ordinary sheathing, this material provides structural strength, efficient insulation, and an effective vapor seal at one cost.
CELOTEX VAPOR-SEAL AND STANDARD INSULATING LATH. Page Used in place of other lath, these materials provide an excellent plaster base, efficient insulation, and a definite sound-deadening effect.
ANCHOR GYPSUM LATH AND CELOTEX ANCHOR PLASTER . Page 1 Made to conform to internationally famous Celotex quality standards, these products meet architects' and contractors' most exacting demands.
These materials offer the modern way to accomplish interior decoration, insulation, and quiet at a single cost.
WHITE ROCK WALL BOARD
CELOTEX HARDBOARD TILE
CELOTEX ROCK WOOL BATTS Page 24
CELOTEX TRAFFIC TOP
A complete modern line of highest quality asphalt shingles, siding, and roll roofing manufactured by a special process which insures extra years of service at no extra cost.

In certain territories Gypsum lath, sheathing, and wall board are sold by The Celotex Corporation, as selling agent and not as principal.





OF COURSE YOU'RE GOING TO INSULATE...

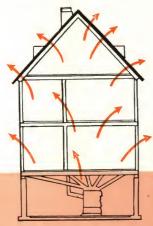
A N uninsulated house is an expensive house to heat—a fuel-waster, cold and drafty in winter in spite of everything you can do—and uncomfortably hot in summer. Eighty-three out of every hundred people who plan to build say they want insulation.

Thermal insulation may be any substance which obstructs the passage of heat. Built into the outer walls and top-floor ceilings (or under the roof), insulation saves fuel by keeping a larger proportion of heat inside the house. In summer, by a similar action, insulation halts heat from the sun, keeps the interior

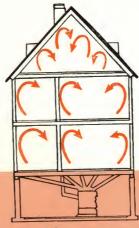
of your home cooler by several degrees than the outer temperature.

Many people believe they are insulating their houses when they put insulation into the top-floor ceiling—but this is only a partial job. Be sure to insulate your side walls, too!

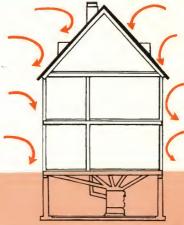
Good insulation pays for itself in fuel savings alone in a few years. It makes your house more comfortable to live in and easier to sell. According to government figures, it is easily possible for efficient insulation to save you one-fourth to one-third of your fuel bill every winter. Let these diagrams show you just how insulation works:



The uninsulated house leaks heat through walls and roof. It leaks out in winter and in during summer.



The insulated house conserves winter heat, saves fuel by preventing excess loss through walls and roof.



The insulated house turns back blistering sun rays in summer, keeping the interior cool.



This uninsulated house permits the rapid escape of costly heat through the roof, which causes snow to melt almost as fast as it falls.



Snow remains on the roof of this insulated house, showing that the owner is conserving heat, saving fuel, enjoying the benefits of greater comfort.



THIS IS A TYPICAL 6-ROOM HOUSE

UNINSULATED

IT USES 10 TONS OF COAL

THIS modern 6-room house is typical of thousands. It could be your house. It has 1500 square feet net of side wall area and 700 feet of top-floor ceiling area. There are 17 windows and three outside doors, with 170 square feet of glass and door area, and there are cracks around them which let in cold air.

Side walls—ceilings—glass area—cracks around openings—those are the four places where heat is rapidly lost in any house.

Let's say, for the sake of argument, that this house with no insulation will use 10 tons of coal during an average winter. You may use oil or gas heat, but the proportions will remain the same. The charts show you just how much fuel is required to overcome the four sources of heat loss—and how each of the losses can be effectively cut:

Of the 10 tons, 2.3 tons go to replace heat lost through the top-floor ceilings of this house.

4.4 tons of coal are used to replace heat which has escaped through side walls—the largest single heat-wasting area.

Heat lost through glass accounts for 2.2 tons of the required coal.

Cold air coming in around windows and doors must be warmed—takes 1.1 tons of coal. THROUGH CEILING

2.3 TONS

THROUGH SIDE WALLS

4.4 TONS

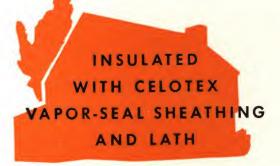
THROUGH GLASS
2.2 TONS

COAL LOST AROUND OPENINGS

1.1 TONS

HERE'S HOW CELOTEX INSULATION PAYS FOR ITSELF QUICKLY

And Pays You Cash Dividends Every Year for the Life of Your Home!



INSULATED
WITH CELOTEX
VAPOR-SEAL SHEATHING
AND LATH
Plus Storm Windows and Doors

USES 7.1 TONS OF COAL

The house has now been insulated with Celotex Vapor-seal Sheathing and Lath. Instead of 10 tons, only 7.1 tons of coal will be needed to maintain winter comfort in the same house during the same winter.

CELOTEX INSULATION SAVES 2.9 TONS OF COAL!

Thanks to 1" Celotex Vaporseal Lath insulation, less heat escapes through top-floor ceilings—and only 1.3 tons of coal are required to replace that loss.

25/32" Celotex Sheathing and 1/2" Lath have reduced heat loss through side walls, so that now only 2.5 tons of coal are needed to make up this loss.

Celotex Insulation does not affect heat loss through glass, so this figure is still 2.2 tons.

Cracks around doors and windows are not affected by Celotex Insulation.

COAL LOST
THROUGH CEILING
1.3 TONS

WALLS
2 5 TONS

COAL LOST

2.5 TONS

THROUGH GLASS
2.2 TONS

COAL LOST AROUND OPENINGS

1.1 TONS

USES 5.4 TONS OF COAL

In addition to Celotex Vapor-seal Sheathing and Lath Insulation, the same house has now been given the added protection of storm windows and doors. All four heat losses have now been economically reduced. We need only 5.4 tons of coal to keep the same house at the same comfort levels.

CELOTEX INSULATION SAVES 2.9 TONS STORM SASH SAVES 1.7 TONS

Same as in previous diagram. The 1" Celotex Lath Insulation MUST be installed at the time your house is built.

Same as in previous diagram. The Vapor-seal Sheathing and Lath Insulation MUST be installed at the time your house is built.

With storm windows and doors, this loss is cut to .9 tons. This protection can be added at any time after the house is built.

Storm sash and doors cut this loss to .7 tons. This protection can be added at any time after the house is built.

THROUGH CEILING

1.3 TONS

COAL LOST
THROUGH SIDE
WALLS

2.5 TONS

through glass
9 TONS

COAL LOST AROUND OPENINGS

.7 TONS

TO INSULATE ROOF AND NOT SIDE WALLS IS LIKE WEARING A MACKINAW AND NO PANTS!

SIDE WALLS...

ARE YOUR LARGEST HEAT-WASTING AREA

It Is All-Important That They Be Insulated
When Your Home Is Built

THERE are more square feet of heat-wasting area in the side walls of a house than in any other single factor of fuel waste! And the only time these walls can be insulated efficiently and economically is at the time they are being built!

If it becomes a question of cutting costs, you can add roof or top-floor-ceiling insulation later on, without any appreciable price penalty or sacrifice of efficiency. Storm sash can be added at any time, without increasing their cost. But side wall insulation, to do its job well and permanently, must be built into the walls before they are completed.

You would hardly venture out into a blizzard wearing a mackinaw—without protection for your legs! Yet that is what it would amount to, if you built roof insulation into your new home and left the side walls uninsulated. Side-wall leakage lets drafts in. Side-wall leakage is what made the "north bedroom" a veritable cold storage plant in your grandmother's uninsulated house.

Be sure you provide insulation of proved efficiency for your side walls at the time your house is built!



CELOTEX VAPOR-SEAL SHEATHING

... USED IN PLACE OF ORDINARY SHEATHING...



DOES 3 JOBS AT ONE LOW COST

EVERY frame, brick veneer, stone veneer, or stucco house requires sheathing. This is the material which, nailed to the studding, first encloses the building. In old-fashioned construction, wood boards were used for this purpose. This wood sheathing was then covered with building paper, after which the wood siding, brick veneer, stone veneer, or stucco was then added to complete the wall.

Today, big, rigid boards of Celotex Vapor-seal Sheathing replace ordinary sheathing. Actual tests have proved repeatedly that this material provides more structural strength. In addition, at the one cost, it furnishes insulation of proved efficiency and the vapor seal so necessary with modern air-conditioning heating plants. In milder climates, this vapor seal is equally important as a preventative of troublesome condensation on walls.

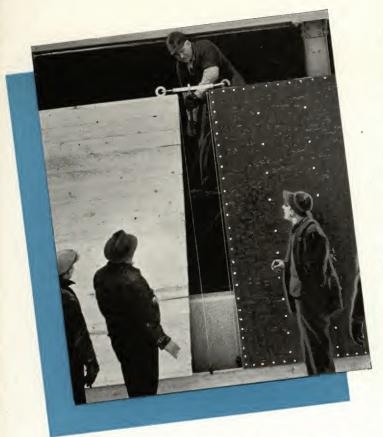
Two ordinary expenses—sheathing and building paper—are eliminated, making the net installed cost of your guaranteed Celotex Vapor-seal Sheathing very low indeed! In fact, its cost in many markets is actually no more than that of ordinary wood sheathing. Ask your Celotex Dealer about it!

Celotex Vapor-seal Sheathing 4 feet wide is nailed with four rows of nails, giving bracing strength equal to diagonal wood sheathing, and far greater than horizontal wood sheathing. Easy to handle, it goes up fast, stays put!

Cut into a piece of Celotex Vapor-seal Sheathing. See the millions of closely knit fibres which form the insulation—the surface impregnations of asphalt and aluminum providing the needed vapor seal!

CELOTEX VAPOR-SEAL SHEATHING

Means a STRONGER Sheathing, without Cracks or Knot Holes for Heat Leakage



THIS photograph shows the famous turnbuckle test, made by Columbia University, the University of Minnesota, and many other recognized authorities, which proves that Celotex Vapor-seal Sheathing has far greater bracing strength than horizontal wood sheathing.

Frames of equal size are built side by side, one covered with wood sheathing and the other with Celotex Sheathing. Then a turnbuckle is used to exert equal pulling power on both panels. The Celotex panel always holds its position, while the panel built with wood sheathing is drawn out of shape. Thus, is proved that with Celotex Vapor-seal Sheathing, you are assured a rigidly framed house which will resist distortion due to wind pressure or settling strains. This also reduces the chances of cracked plaster.

Furthermore, there are usually knot holes and cracks in wood sheathing—but every board of Celotex Vapor-seal Sheathing is perfect, free from openings of any sort, wind and weathertight! No wonder it prevents drafts and heat leakage. Ask your Celotex Dealer!

NEW CENTER MATCHED VAPOR-SEAL SHEATHING

Applied Horizontally, Makes Weather-Tight Wall

CONTRACTORS and carpenters are enthusiastic in their praise of the new Celotex Center Matched Vapor-seal Sheathing, which comes in boards two by eight feet with tongue and groove running the long way. They say this smaller size makes the boards easy to handle, and that applying them horizontally gives a maximum of bracing strength.

There is no possibility of heat-leakage through cracks, since the center matched feature effectively closes horizontal joints, and all vertical joints occur on studding. Ask your local Celotex Dealer about this latest development in Celotex Vapor-seal Insulating Sheathing.



CELOTEX VAPOR-SEAL LATH

IN OUTER WALLS AND TOP-FLOOR CEILINGS

Meets 3 Requirements at 1 Low Cost

EVERY home with a plastered interior must have some kind of lath or plaster base. Celotex Vapor-seal Insulating Lath meets that requirement—furnishes an excellent plaster base. But in addition, at the same initial cost, this proved material provides efficient modern insulation for outer walls and top-floor ceilings, plus a scientifically correct vapor seal to prevent harmful moisture condensation in between-wall space.

Lathers and plasterers like to work with Celotex Vapor-seal Lath. It goes up easily, bends safely around moderate curves, insures a wall permanently free from ugly, disfiguring lath marks. Moreover, it reduces the chance of plaster cracking by providing a continuous uninterrupted plaster base which adds strength to the entire building.



By providing a continuous plaster backing and a strong, uninterrupted bond between plaster and lath, Celotex Vapor-seal Lath reduces chance of plaster cracks.

Deadens Sound... Confines Noise

B^E sure to use standard Celotex Insulating Lath for the inner walls of your home—for its strength, its freedom from lath marks, and its remarkable sound-deadening efficiency.

Noise, like heat, has trouble penetrating those closely-knit cane fibres with their millions of dead-air cells. This sound-deadening efficiency helps keep street noises from coming in, helps confine inside noises—radio, laughter, children at play—to the rooms where they originate. To make your home truly modern, use Celotex Lath on all walls to insulate it against noise as well as fuel waste. Ask your Celotex Dealer!



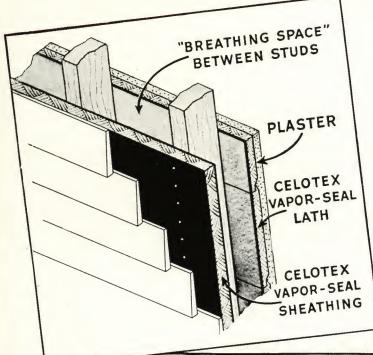
Ugly, disfiguring lath marks are permanently prevented in your home when your walls are plastered to solid, unbroken wall provided by Celotex Insulating Lath!



Joyous laughter and music from below, the detective story with its gun shots in the next room, are filtered from baby's room by sound-deadening Celotex Lath.

Breathing Space construction

PERMITS EVAPORATION, KEEPS WALLS DRY AND SOUND



"Breathing space" in walls is important. It permits evaporation of any moisture which may penetrate between walls, and is a definite aid in keeping wood dry and sound through years of service.

WHEN you insulate with Celotex Vapor-seal Sheathing and Vapor-seal Lath, this important breathing space is kept open. Recommended Celotex construction calls for $^{25}/_{32}$ " Vapor-seal Sheathing combined with $^{1}/_{2}$ " Vapor-seal Lath for the walls, and 1" Vapor-seal Lath on top-floor ceilings. This gives you complete, efficient insulation, guaranteed in writing for the life of the building.*

You actually pay for insulation, whether you get it or not! You pay for it, in actual cash paid out for wasted fuel. On the other hand, if you finance your house over 20 years, any slight increase in your initial payment to include Celotex insulation is more than covered by your fuel savings the first winter. From that time on, every year of the 20, your Celotex Insulation pays you a dividend as high as 200% to 300%!

* See page 21.



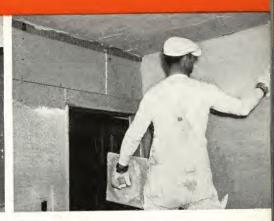
ANCHOR GYPSUM PRODUCTS











Anchor Gypsum Lath is made from selected fireproof gypsum rock scientifically processed according to most approved modern methods. Cast between strong fibered, durable paper chosen because of the excellent bond it forms, this lath provides a firm, permanent bond for plaster—insuring strong, permanent walls.

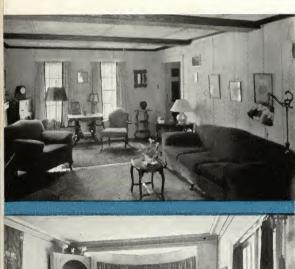
Lathers and plasterers like to work with Anchor Lath. And you'll admire the beauty of the finished walls obtained by plastering over this sturdy plaster base.

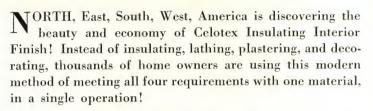




Beautiful CELOTEX INTERIOR FINISH

BUILDS, DECORATES, INSULATES—AT ONE COST!





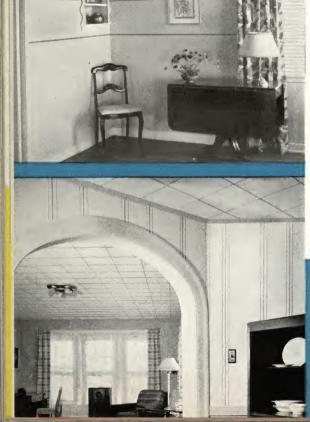
Celotex Key Joint Units, for example, furnish a full threequarters inch of efficient insulation. Applied direct to open framing, they design as they build, requiring no sawing or cutting except at room borders and openings. All edges of each unit are beautifully detailed; the patented spline conceals open cracks. And their factory-applied finishes of rich, smooth color (Ivory, Buff or Green) do away with further need for decoration. (See photo on page 17.)

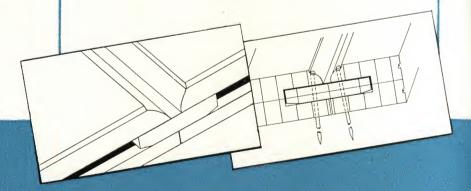
Celotex Insulating Plank and Tile, available in many tints and textures, likewise combine decoration and insulation. Be sure to have your own Celotex Dealer show you samples and demonstrate the many beautiful effects which can be achieved so easily—and so economically!



CELOTEX KEY JOINT UNITS DESIGN AS THEY BUILD

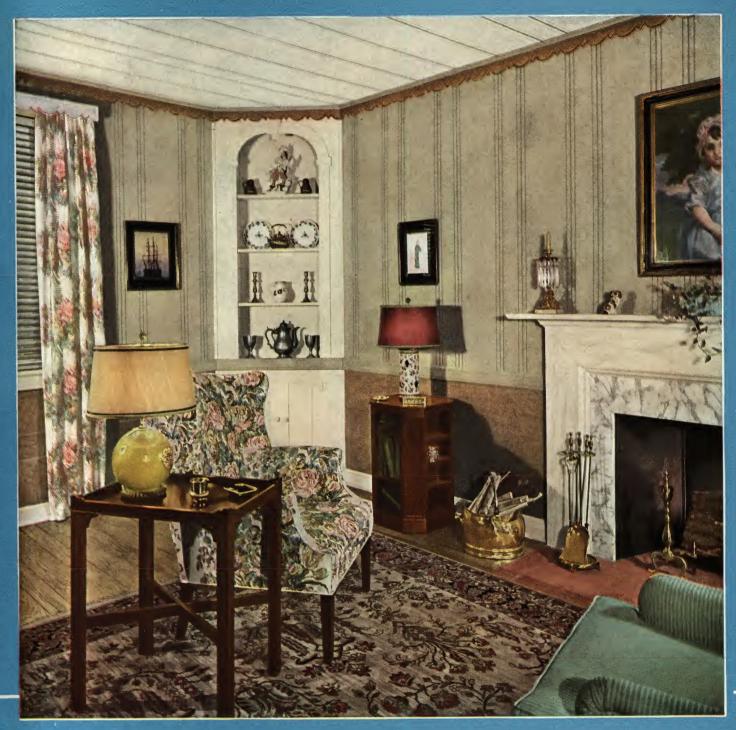
You can see in the drawing below how beautifully all edges of Celotex Key Joint Units are detailed—and how the spline hides cracks. Nail heads are hidden in the depth and shadow of the joints.





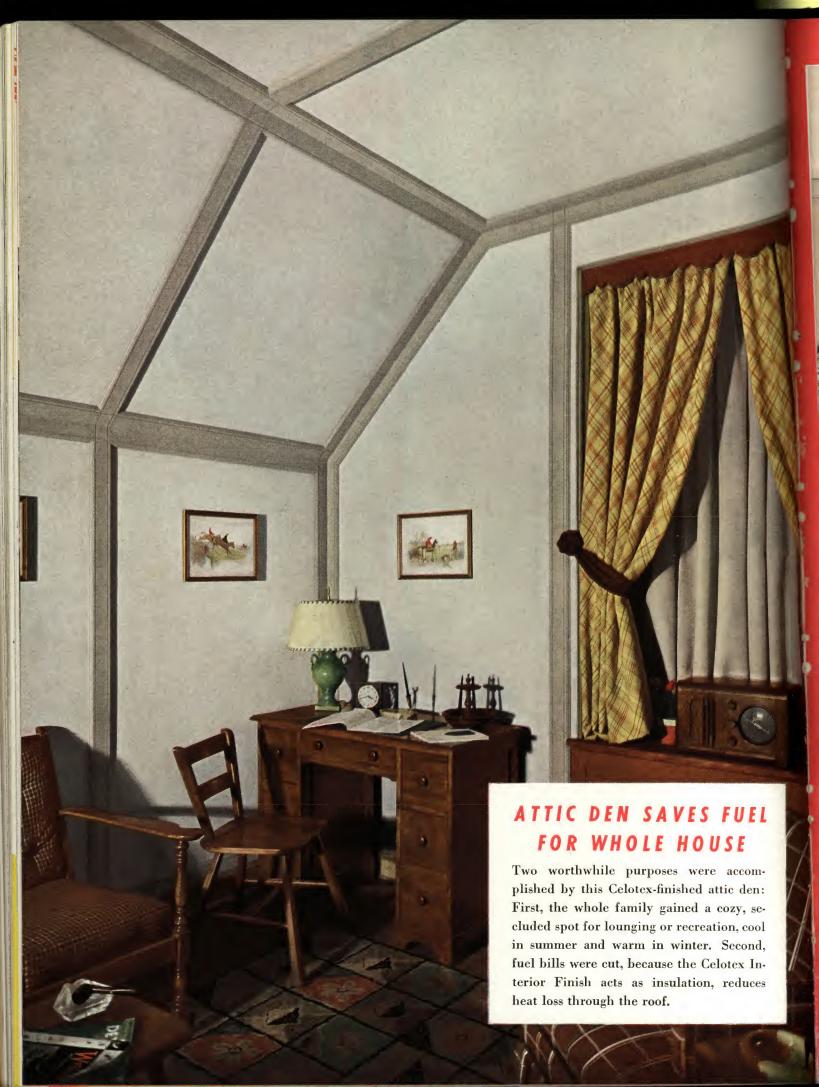
HERE'S BEAUTY, WARMTH. AND CHARM APLENTY!





A GRACIOUS LIVING ROOM WITH "HOMEY COMFORT"

Authentic English Provincial in style, this cozy, livable room uses Celotex Plank horizontally below the chair rail and vertically in a lighter finish above. Celotex Hardboard Moulding makes the interesting cornice, with Celotex Plank in random widths for the ceiling. The corner cupboard is of Celotex Studio Board painted white,





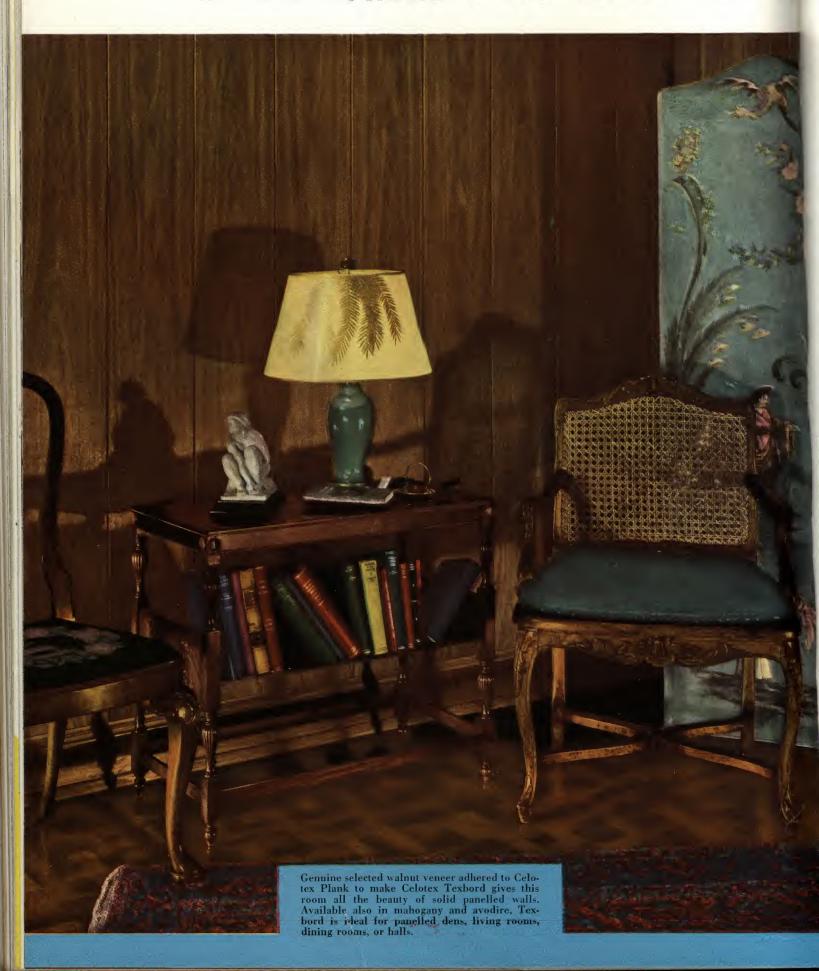
ATTIC ROOM FOR "TEEN-AGE" GIRL

by editors of "BETTER HOMES & GARDENS"

• Here's a room that caters to every whim of the "young lady of the house"—a place to sleep, study, sew, or hold little informal social gatherings with school chums. It's a room she'll not only love, but one she will love you for giving to her—and you can so easily!

Completely planned and furnished by the editors of Better Homes & Gardens Magazine for a girl, this room could be quickly adapted to the use of a boy, or two boys. And the Celotex Interior Finish Products used not only mean low cost, easy heating in winter and cool comfort on hot summer days—but a definite aid in cutting fuel bills for the whole house as well. Because the proved insulating value of these products helps prevent the escape of valuable heat through the roof.

THERE'S NO LIMIT TO THE



CELOTEX INSULATING INTERIOR FINISH

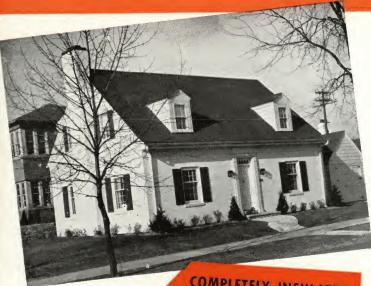


A recreation room that's ready for a rumpus or a quiet game of bridge! Celotex Key Joint Units, the insulating interior finish material that designs as it builds—easily makes possible attractive playrooms like this in either new or old basements.



THE ACTUAL NET COST OF CELOTEX

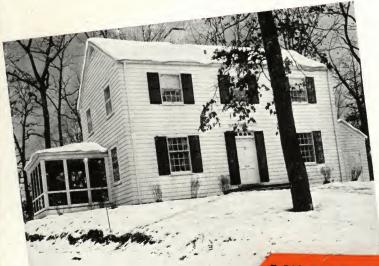
Used in Constructing Your New Home



W.W. Norris, President of the well known Walter Norris Company, Chicago, says, "Because Celotex Insulation does a triple job—builds, vapor-seals, and insulates—at one cost, I will duplicate this large 6-room home, in the Chicago area, and the cost of complete Celotex Insulation will be only \$93.30."







"Because Celotex Insulation builds, insulates, and vapor-seals at one cost, complete insulation in this big 6-room house cost only \$85 net!" says W. T. Nagle, Saginaw, Michigan, Designer and Builder. Low net costs are possible because Celotex Insulation replaces other materials, contributes structural strength!

In this charming suburban home the difference between uninsulated construction and complete insulation with Celotex Vapor-seal Sheathing and Lath was less than \$95! The owner actually gets \$335 worth of guaranteed insulation, but pays far less because Celotex eliminates \$235 worth of other materials!

7 BIG ROOMS . . 2 BATHS
\$9500
NET
FOR COMPLETE INSULATION

INSULATION IS AMAZINGLY LOW!



. . . Or as Insulating Interior Finish!

THE WHOLE FAMILY ENJOYS THIS FUN ROOM

Dad's guns and golf trophies, mother's books and easy chair, the children's ping-pong table find ample room up under the roof in what was "forgotten space." The beamed ceiling adds that outdoor "woodsy" look . . . and the cost of Celotex Interior Finish plus the labor of putting it on was only \$104.00.*





NOBODY'S SCOLDED WHEN TOYS AREN'T PICKED UP

Up here, away from spic-and-span rules, it's fun to get out the playthings while the rain's drumming on the roof! And when the sun comes out and toys are left strewn around, nobody gets scolded, because they're in nobody's way! This room—only \$70.00.*

UNDISTURBED BY MOTHER'S GUESTS!

Clear the track for the Streamliner! And if there's a noisy wreck, mother's afternoon guests up in the living room won't know it! Give your children a basement room of their own, like this, in your new home. At \$84.80* this attractive room is a bargain in undisturbed recreation!

13'x 17' BASEMENT ROOM THE CHILDREN'S OWN

*For the size room shown, including both Celotex Insu-lating Interior Finish and labor to apply it. Cost will vary, of course, with room conditions and dimensions, and local labor costs.

CELOTEX CANE FIBRE INSULATION

Permanently Protected Against Termites and Dry Rot – Guaranteed in Writing for the Life of the Building*



Originally a tropical insect, the termite is now active in most of the 48 states, his destructive action on wood causing millions of dollars damage every year. But he will never attack your Celotex Cane Fibre Insulation, protected by the exclusive, patented Ferox Process!

One inch of Celotex Insulation has a heat stop value equal to: 3 - one-inch 9 - 2 -inch 15-inch wall 16-inch wall 36-inch wall layers of layers of of common of clay of solid wood plaster board tile concrete WOOD PLASTER BOARD CLAY TILE BRICK CONCRETE

THE Celotex Corporation is the world's largest manufacturer of structural insulation. As a pioneer in this field, this organization discovered the insulating value of long, tough fibres of bagasse (sugar cane) and developed the process by which these fibres are made into big, rigid boards.

All Celotex Cane Fibre Products are manufactured under the Ferox Process (patented), an integral chemical treatment toxic to fungus growth, dry rot, and termites (white ants), which effectively protects them against these agencies of destruction.

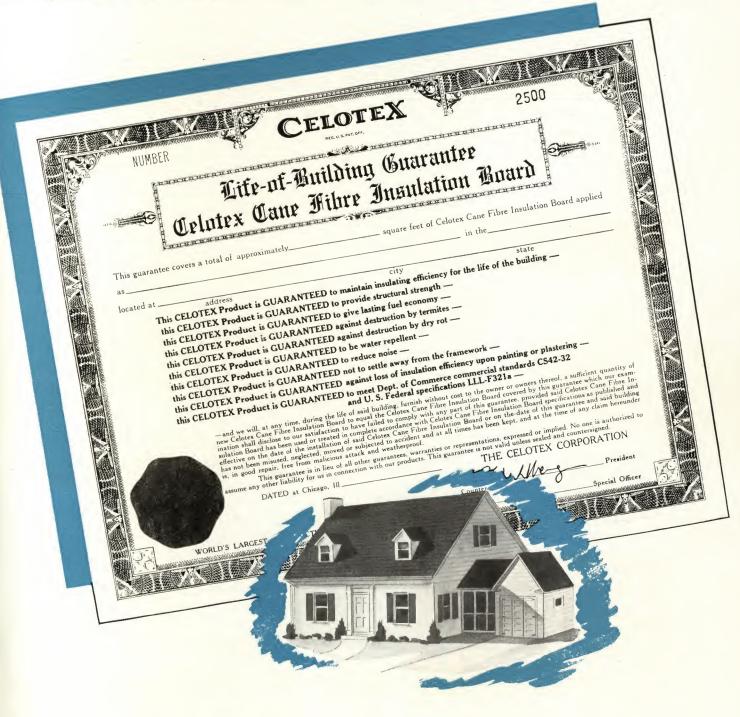
Not only is Celotex Cane Fibre Insulation economical because of its replacement of other building materials but also because it pays for itself over and over again in fuel saved. In addition Celotex Insulation is GUARANTEED IN WRITING FOR THE ENTIRE LIFE OF YOUR HOME!* Read this binding guarantee carefully, as shown on the opposite page, and see for yourself how it safeguards your insulation investment!

*This guarantee, when issued, applies only within the boundaries of Continental United States.



CELOTEX GUARANTEED INSULATION FURNISHES THIS WRITTEN LIFE-OF-BUILDING GUARANTEE

Safeguards Your Insulation Investment as Long as Your Home Stands!



WHITE ROCK GYPSUM WALL BOARD

Builds Beautiful Walls Quickly, Easily, Economically!



See the smooth, unbroken beauty of White Rock Wall Board as used in this handsome living room!



White Rock Wall Board hastens the occupancy date of a home—there's no delay waiting for plaster to dry!

You can hold a blow torch flame right against the surface of White Rock Wall Board without danger of setting it afire. Gypsum rock doesn't burn! WITH the rapid increase in popularity of "dry-built" construction for homes, new thousands of owners every year are making use of White Rock Gypsum Wall Board for interior finish throughout the house.

White Rock Wall Board has a core of fireproof gypsum rock, with a beautifully finished surface ready for decoration—or it can be left in its natural state for walls of distinction, attractiveness and dignity.

Or you may let White Rock Wall Board do its own decorating, by selecting one of the new grain finishes which give your room the beauty of wood paneling!



CELOTEX HARDBOARD TILE

Makes Smart KITCHEN AND BATHROOM WALLS

Kitchens and bathrooms are given the final touch of modern beauty and smartness by Celotex Hardboard Tile—moistureproof, colorful, easily cleaned!

The beautiful smooth finish of this modern material takes paint or enamel perfectly, enabling you to follow any desired color scheme while having the neatly squared tile effect which is so popular in today's kitchens and bathrooms.

Especially favored is the combination of Celotex Hardboard Tile for walls, with Celotex Hard Board for work table and counter tops, under cupboards or adjoining sinks.

Ask your Celotex Dealer to show you samples of these products!

Spic and span and neat as a pin! That's the invariable effect of bathrooms like this, when finished with Celotex Hardboard Tile,

Bathroom walls can't help getting spattered, but the spots wipe off in a jiffy when moisture-proof Celotex Hardboard Tile is used.



Back of stove and sink, easily cleaned Celotex Hardboard Tile makes kitchens smart, modern, easy to clean.

Inviting, isn't it? And your new kitchen can be equally so, at small cost, with walls of Celotex Hardboard Tile!



CELOTEX ROCK WOOL BATTS

PAPER-BACKED

Efficient, Permanent, Wall Thick Insulation

Vapor-proof, Vermin-proof, Fireproof



MAKE your home snug and warm in winter; cool and comfortable in summer. Celotex Rock Wool Batts act like a blanket to keep heat inside in winter and outside in summer. Icy winds or blistering sun—the fluffy, flexible, water-proofed fibers of Celotex Rock Wool paper-backed batts are equal to job of providing year-round insulation.

Made from selected minerals, Celotex Rock Wool is clean, lightweight, fireproof, efficient. Formed into batts, backed with a vapor-proof paper membrane, it fits snugly between standard joist and stud framing without settling. For high efficiency insulation, ask your Celotex Dealer about Celotex Rock Wool.

CELOTEX TRAFFIC TOP

The Ideal Surfacing for Roof Decks Over Porches or Garages, As Well As for Basement Recreation Room Floors

CELOTEX Traffic Top, the most modern surfacing for exposed roof decks or basement floors, is impervious to weather and resilient under foot. It prevents moisture condensation on concrete basement floors.

Available in colors, this improved roof surfacing deadens sound and protects built-up roofing from all kinds of weather. It is permanently protected against termites and dry rot by the exclusive, patented Ferox Process.

If you have been considering tile for either or both of the above purposes, you will be delighted to find how much less expensive Celotex Traffic Top is—and how completely it meets all requirements.



Grait on CELOIEL REG. U. S. PAT. OFF. TRIPLE SEALED SHINGLES Extra Gears of Service at No Extra Cost!



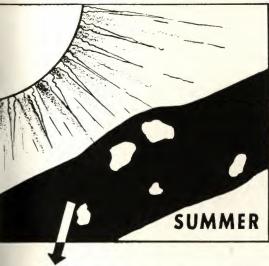
Tiny air and moisture bubbles, trapped inside roofing felts during manufacture, contract with cold...

The roof of your home will be its most important single factor of protection from weather. When you buy that protection, you want as many years of service as you can possibly get for your money. You want a roof which will not only give you full protection for a maximum span of years, but which will be in keeping with the architecture of your home—styled for beauty and color.

Since fire insurance is one of the important items to consider in figuring costs, you want a roof which entitles you to a low fire insurance rate.

Insist on Celotex Triple Sealed Shingles—for extra service at no extra cost—for the utmost in modern style and beauty—and for insurance savings! The Celotex Triple Sealed manufacturing process gives you three-way protection from rain, heat, wind, and snow.

- (1) INNER SEALED—By special process, asphalt is forced into felt base from one side only! Air and moisture are driven out ahead of the asphalt.
- (2) OUTER SEALED—The saturated base is next dipped in an asphalt bath—encased in a second seal.
- (3) Face Sealed—Finally, a tempered mineral-filled asphalt coating is applied—thus forming a tough, durable third seal.



...and expand with heat, weakening the structure and eventually leading to trouble. The Celotex Triple Sealed Process drives out pocketed air and moisture—gives 3-way protection!



Safeguard Jour Investment

CELOTEX

TRIPLE SEALED SHINGLES



YOUR CHOICE OF LATEST STYLES AND COLORS





Celotex Shad-O-Grain Shingles present a delightful weathered wood grain effect built up on the shingle for added shadow depth which harmonizes with any style of architecture. Available in Green Blend, Gray Blend, Red Blend, Brown Blend.



Celotex Three-Tab Thick Butt Shingles have an extra coat of asphalt and granules for extra protection on exposed area. They are offered in Red Blend and Green Blend, Lawn Green, and other beautiful colors.



Long a favorite style, Celotex Standard Hexagonal Shingles present a fine appearance on almost any style house. Available in your choice of Old Standard Red, Blue Black, Brick Red, Old Standard Green, Lawn Green, Aluminum, Purple Slate Blend, and Blue.

Many other styles available — See your Celotex Dealer!

BE SURE TO GET ACQUAINTED WITH YOUR

CELOTEX DEALER



Let Him Help You Build BETTER for LESS with CELOTEX PRODUCTS

Your own local Celotex Dealer has had years of experience in the building business. It is part of his job to know about the latest money-saving developments in home construction. And you will find him full of friendly interest in your own problems, no matter what type or price home you may be planning.

Ask him lots of questions! Get him to show you Celotexinsulated homes which have recently been completedor are now being built—right in your community. He'll be glad to introduce you to people who have lived within the comfort of Celotex Insulation for years—and be sure to ask *them* about it!

Your Celotex Dealer has worked closely with architects and contractors. He can, if you wish, help you get an F.H.A. loan. And he has full information on the Celotex-F.I.C. Budget Plan for remodeling, should you decide to enlarge your home at some future date. In short, his experience in everything pertaining to the planning and building of homes is entirely at your disposal—without obligation. His advice and counsel should help you build a better home than you would otherwise have—for less money than you would otherwise pay!



PLUMBING AND HEATING FOR THE ***** X X R

Crane Equipment

FOR YOUR HOME SHOULD INCLUDE

BATHROOMS

LAVATORIES
BATHTUBS
SHOWERS
SHOWER
COMPARTMENTS
MIRRORED CABINETS
ACCESSORIES

KITCHENS

SINKS
CABINETS
WATER HEATERS
LAUNDRY TUBS

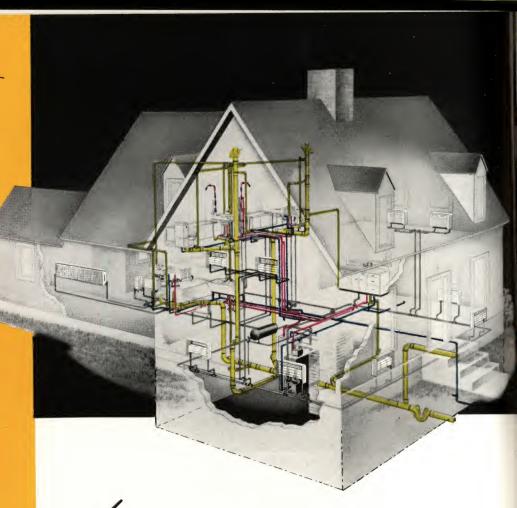
WATER SYSTEMS

PUMPS
TANKS
WATER CONDITIONING
EQUIPMENT

HEATING

BOILERS
FURNACES
RADIATORS
CONTROLS
CIRCULATORS
OIL BURNERS
STOKERS
AIR CONDITIONING
EQUIPMENT

VALVES, FITTINGS AND PIPING FOR THE WHOLE HOME



Sour ENTIRE HOUSE SHOULD BE

Crane-Equipped

Regardless of the size of the home—regardless of the price, it is deserving of the best in equipment. In plumbing and heating this best, by any gauge or precedent, is Crane.

The name Crane has stood for quality in materials and workmanship since the founding of the company eighty-five years ago. So synonymous have been the two, Crane and Quality, that many people have jumped to the erroneous conclusion that Crane fixtures must be high priced. As a matter of fact, you pay no more for Crane Quality than for much plumbing and heating equipment similar in general appearance but of greatly inferior value. Often Crane fixtures cost less to install.

The huge Crane plants producing porcelain enameled cast iron and vitreous china plumbing equipment—radiators and boilers—valves and fittings—coupled with the extensive Crane distributing system, nation-wide in scope—mean modern mass operation and therefore the lowest possible price consistent with high quality. For the satisfaction of having the best, the most complete and modern home one could desire, Crane-Equip throughout with Crane Bathtubs, Lavatories, Closets, Showers, Sinks, Laundry Tubs, a Crane Boiler, Radiators, Convectors, Crane Valves and Fittings. Specify Crane and be sure of enduring quality and an investment in long, satisfactory service.



Crane Fixtures

FOR THE BATHROOM

I he beauty of any bathroom depends in a large measure upon the fixtures that are installed. If these are modern, graceful in design, properly proportioned and carefully made, they will lend a dignity and charm to the bathroom that will appeal to those who appreciate the finer things.

Recently added to the Crane line is the new group of paneled

fixtures that make it possible to secure matched units in the bathroom. All have individual charm, yet the units are designed to complement each other and give a unified distinctiveness that the home owner will appreciate. On the following pages you will find handsome paneled bathtubs, lavatories and closets which may be grouped together to give a wide selection of bathroom arrangements that will fit any room as well as any budget.

How to Plan the Bahreom, yea've always wanted at Danky designation from C. R. A. N. E.

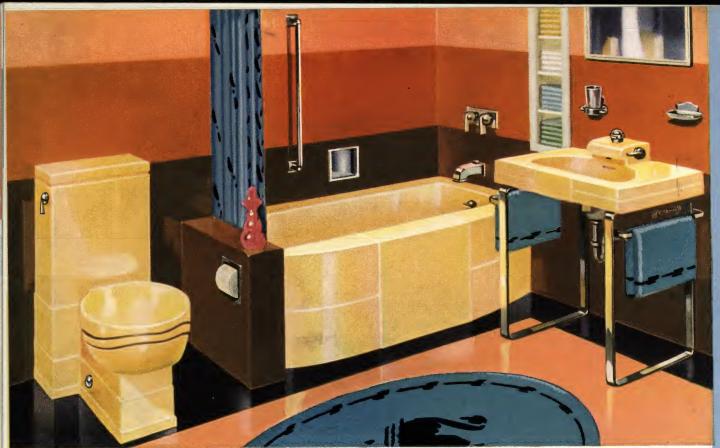
If you are interested in bathroom planning, here is a book full of practical suggestions designed to help you. It shows how you can make the most of the space you have available. This book offers suggestions on fixture arrangement, ideas on decorations and color harmonies that will help you plan your bathroom. Ask your Plumbing Contractor or write Crane Co., Chicago, for a copy.

Crane fixtures are designed to suit every taste as well as any floor plan. In the complete Crane line there are compact little lavatories for the convenient half-bathroom tucked in below the stairs or inexpensive fixtures designed for the small, modest cottage. In this line you will find those ample sized, cleanly designed fixtures that have made the name Crane famous for bathrooms in America's finest homes.

But regardless of the price and regardless of the size, all Crane fixtures have this in common—all are designed to give the maximum in sanitation—the maximum in service. Crane bathtubs incorporate safety features and take full advantage of every square inch of space to provide a luxurious bath. Crane lavatories fill quickly, drain quickly, too, and are easy to clean as

well as easy to keep clean. Crane closets are low in height, correctly proportioned; and they flush quietly and positively.

On the following pages you will find just what you want in fixtures for your home. After you have looked at them, consult with your Plumbing Contractor, your Architect or your nearest Crane Branch on how easily you can enjoy the beauty, the comfort of Crane fixtures in your home.



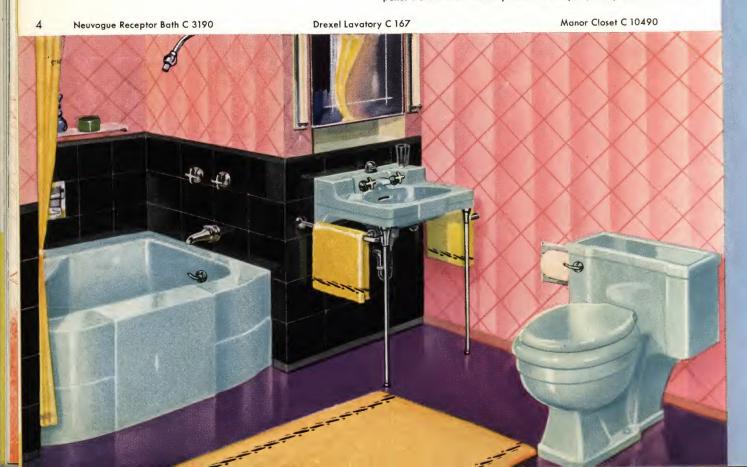
Neuvogue Closet C 10381

Neuvogue Bathtub C 3225—LV95

Neuvogue Lavatory C 128

The Neuvogue Bathroom is the latest word in styling and represents a new departure in the bath for the modern home. Conceived in the spirit of today's demand—"Utility made beautiful"—the Neuvogue design joins the essential lines, planes and curves into an artistic relationship and, without extraneous ornament, each piece emerges a thing of beauty in its own right.

This convenient arrangement in a compact bathroom demonstrates how a space of unusual proportions can be successfully used when the Neuvogue Receptor Bath is installed. For long, narrow rooms or under conditions where a conventional bathtub will not fit, this Receptor Bath will provide ample bathing facilities. The panel design of the tub is echoed in the panel front Drexel Lavatory and the compact, one-piece Manor Closet.





Merit Closet C 11000

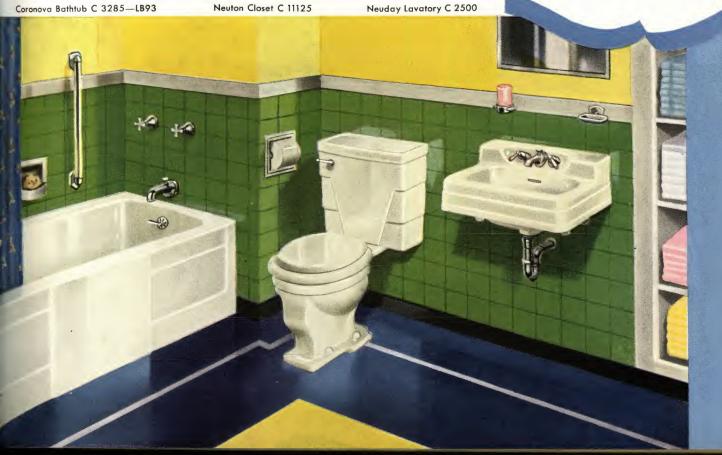
Oxford Lavatory C 610

Coronova Bathtub C 3306—LB93

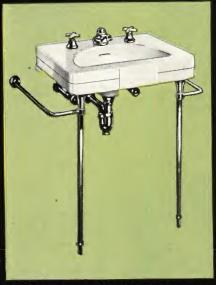
For the moderately priced home which demands the convenience of a modern bathroom, this ensemble will fill every requirement. The compact, wall-hung Oxford Lavatory provides a large basin with convenient shelf space and a mixing spout to give tempered water. The compact close-coupled Merit Closet is quiet in action and the Coronova Bathtub is ideal for tub or shower bathing. The fixtures all have the modern panel design.

For the home that must operate on a close budget this inexpensive group of fixtures will give the maximum in convenience with minimum cost. The Coronova Bathtub provides a luxurious bath and may be had with or without shower. The Neuton Closet is attractive and modern in appearance. The Neuday Lavatory has a large basin, convenient shelf back and chromium plated mixing faucet to give tempered water.

TO SUIT EVERY TASTE AND EVERY **POCKETBOOK**



NEUVOGUE—C 128 (Patented). Of vitreous china; controls are grouped at the center. Has LEVER-ACTION SECURO waste. Flat bar support, metal legs or china pedestal. Size: 27x22 in.



DIANA Lavatory—C 129—L13. New in design, this china lavatory has many novel features. LEVER-ACTION SECURO waste. Sizes: 24x20 in. and 27x21 in.



NORWICH—C 154—WM11. Vitreous china with slab space. Mixing spout for tempered water. May be had on chromium legs or pedestal leg. Sizes: 20x18 in., 24x21 in. and 27x22 in.



OXFORD—C 183. A compact inexpensive vitreous china lavatory. Has panel front, shelf back, mixing faucet. Comes with legs as shown, or wall hung. Size: 19x17 ir.



STERLING—C 180-V12. A vitreous china lavatory with raised shelf. Has RAINIER mixing faucet and pop-up waste. Chromium plated legs. Sizes: 20x18 in. and 24x21 in.



NEUDAY—C 2502 (Patented). Of porcelain enamel on cast iron and has handy shelf back. Mixing faucet gives tempered water. Sizes: 19x17 in., 24x18 in. Also made in wall hung style.

Crane Javatories

MEAN BEAUTY AS WELL AS CONVENIENCE

On these pages are illustrated a representative selection of bathroom fixtures and accessories from the complete Crane line. Some are decidedly inexpensive, designed for the modern small home—others are intended to serve those who are satisfied with none butthe finest in sanitary equipment. But regardless of the fixtures selected and regardless of the price, all are of one quality—Crane throughout, built to assure lasting satisfaction.





NEUDAY—C 2504. Similar in design to the NEUDAY on legs C 2502, but has a convenient, roomy, all-steel cabinet. Recessed sub-base permits close approach, the convenient towel bars supplied if desired. Sizes: 19x17 in. and 24x 18 in.



CRANE PANEL DESIGN

The interesting line of Crane paneled fixtures is modern in design and offers the utmost in style and appearance as well as the utmost in efficiency and service. The DIANA, DREXEL and OXFORD Lavatories, illustrated on this page will match perfectly with the NEUVOGUE or CORONOVA bathtubs or the HANOVER, MERIT or MANOR Closets.



DREXEL—C167. Of vitreous china. Has shelf back and moulded-in spout. Two sizes 22×18 in. and 27×21 in.



CORONET—C 281. Of vitreous china. Has a shelf for
toilet articles. Controls are
set on an angle panel.
Moulded-in mixing spout
gives tempered water. Has
LEVER-ACTION SECURO
waste. Size: 24x20 in.
Baked enamel all-steel cabinet provides ample storage
room.

CORONADA-LAVINET—
C 1991. Porcelain enameled with ample free slab space. Single faucet gives tempered water. Convenient slab space for toilet articles. Roomy all-steel cabinet gives ample space for storage. Chromium plated towel bars if desired. Size: 24x20 in.

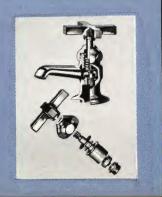


LEVER ACTION SECURO

Quick draining lavatory waste. Designed to produce rush of water which leaves the bowl clean. Positive in action, it works at a touch of the finger. Strainer is removable for cleaning. Sturdily made of heavy brass, chromium plated.

NEWSLEEVE FAUCET UNIT

Longer life for faucets is assured by the Newsleeve unit. Entire operating unit may be replaced without removing faucet from fixture, slips in like a cartridge.



KENT Corner—C 2315. A compact, porcelain enameled cast iron lavatory. Chromium plated RAINIER fitting and P. O. plug. Back protects the wall. Sizes: 16½x16½ in. and

CAROLINA—C 2254. For the small home, and in the compact half bathroom, this lavatory is an excellent selection. Made of porcelain enameled cast iron. Size: 19x17 in.



DENTRIX—C 1223. Small in size, this dental lavatory is decidedly a sanitary convenience and relieves crowding at the regular lavatory. Made of vitreous china. Has shelf back and angle supply panel. Size: 12x12 in.







NEUVOGUE Closet—C 10381. A truly modern siphon jet closet. The tank has been narrowed to give slender lines. Solid base at the floor makes cleaning easy. The seat is flat when closed, but opens into a hygienically correct curve recommended by medical authorities.

Just the Closet You Want

IN THE COMPLETE CRANE LINE

Quiet in operation, low in height, handsome in design, these Crane closets offer the maximum in sanitary convenience. In this group you will find just the one best suited to your home. The Manor, Merit and Hanover are designed with a panel front which makes them particularly suitable for use in a paneled ensemble. All, of course, operate efficiently and use a minimum amount of water in flushing.



HANOVER Closet—C 11004. Low in height, economical in price, quiet in action, this beautiful panel front closet is designed for the modern bathroom. Comfortable low seat, whirlpool action, self-draining jet are features incorporated in the HANOVER.



When the handle is tripped, the water in the tank enters the closet bowl. The rush of water and the buoyancy of the float ball keep the valve open. As the water level slowly approaches the bottom of the tank, the float ball drops. This action is one of the contributing reasons for the quiet action of Crane closets.



In Crane siphon jet closets, the water discharges from the flushing rim, cleansing the bowl and creating a whirlpool, which draws the water and waste to the bottom of the bowl be strong centrifugal action. A powerful jet then forces the contents of the bowl into the outlet passage to complete the flust



SIWELCLO Closet—C 10384. A correct posture siphon jet closet of handsome design. Tank and closet form a close-coupled unit which means quiet action. Saddle design assures comfortable and correct posture recommended by medical authorities.



MANOR Closet—C 10490, Truly a closet for the finer home. One-piece construction gives low height and extremely quiet whirlpool action. Rim only 14 in. from floor means better hygiene and greater comfort. Made of vitreous china—easy to clean.



MERIT Closet—C 11000. Tank and bowl are close-coupled, making for handsome appearance and assuring quiet action. Modern panel design assures an attractive fixture Made of gleaming vitreous china. Has whirlpool action with self-draining jet.



SANTONIA Closet—C 10541. This is a highly efficient close-coupled combination for the home. Conservative in design with well balanced lines, it will blend nicely with other fixtures. Has large water surface, deep seal and siphon jet action.



NEUTON Closet—C 11125. A very handsome closet designed to sell at a decidedly low price. Quiet, positive action is assured by the Crane design and construction. Connection between tank and bowl is concealed. Closet is washdown style.



NEUTON Closet—C 11145. Similar in design to the NEUTON shown at the left, but with plain tank and exposed connection. Made of vitreous china with seat and cover of wood, sprayed finish. Flushing mechanism operated easily giving strong, positive flush.



THERE ARE T





THREE KINDS OF CLOSETS

The most inexpensive as well as the simplest of these is the washdown Neuton Closet. The trapway is at the front and is necessarily small since the efficient flushing of the closet depends upon siphonic action in the trapway.

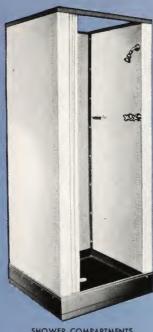
Maximum sanitation and efficiency are secured in the quiet siphon jet closet. The trapway is at the rear and is larger; and the extra large water surface in relation to the rim opening means a reduction in fouling area. The reverse trap closet differs from the washdown in that the trapway is placed at the rear, which adds to its appearance. The water surface is larger, the water seal deeper and action of bowl is quieter and more efficient.





SHOWER STALL FLOOR

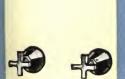
C 5090. Rubberceptor... a shower stall receptor of one piece, seamless rubber—cannot leak. Warm and comfortable to the feet—it absolutely avoids slipping. May be had in ivox marbleized with black and black marbleized with white. Fits in space 36 x 36".



SHOWER COMPARTMENTS

C 4712. Baked enamel finish in a handsome pastel green. Base is black porcelain enameled outside, mottled green and black inside. Two-valve shower with Refreshor head. White duck curtain. Sizes: 30 x 30", 32 x 32" or 36 x 36" each 76" high.





TWIN VALVE SHOWER

C 4265. A be autiful well-made shower with concealed valves having renewable seats. ECONOMY shower head has an adjustable ball joint. Easily grasped handles make control simple even for wet hands.



MIXING VALVE SHOWER

C 4364-B. Has Crane Mixing Valve, assuring convenient con-trol of the water temperature. All water connections are con-cealed in the wall. Screwdriver stops—permit adjusting of the water pressure.



MIXING VALVE SHOWER

MIXING VALVE SHOWER
C 4392-B. A mixing valve
shower is convenient and assures the bather of receiving
water of just the temperature
he desires, Inexpensive yet
serviceable. Has Refreshor
head with adjustable joint.



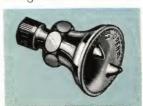
A CRANE SHOWER



HEALTH AND COMFORT

Nothing is so invigorating or healthful as a sparkling shower. This modern, sanitary method of bathing is a necessity in every home—cooling, refreshing in summer—warm and pleasant in winter.

Crane showers are designed to suit every need—every purse. Mixing valve showers, separate valve showers, even complete shower compartments for the extra shower. All Crane showers are of the famous Crane quality built to give lifelong satisfaction.



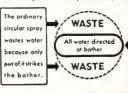
REFRESHOR SHOWER HEAD

C 4875-B. This shower head assures a full volume, snappy needle spray—a bath both pleasant and refreshing. Yet, owing to its construction, it actually gives a saving of one-half the water used by the larger, conventional head. In addi tion, the REFRESHOR is easy-cleaning a turn of the head and the water gushe: through, carrying along any particles that may be clogging the head.

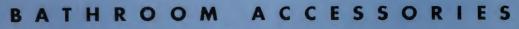


ECONOMY SHOWER HEAD

C 4871-B. Uses less water than the conventional head. The water is aerated, assuring a soothing, invigorating spray. Has adjustable ball joint and spray guide.



The Econo my's elliptical spray con because all of it is directed at the bather





A complete line of attractive accessories for the bathroom has been developed in both chromium and china. Shown here are only a few items from the line which includes every necessary accessory for the modern bathroom.



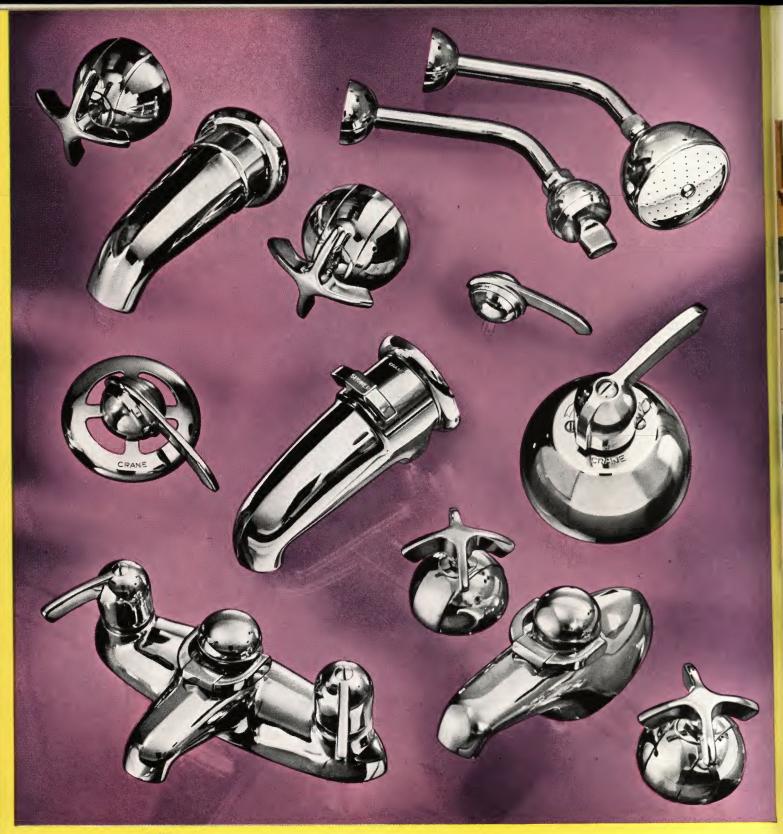
C 24975. A vitreous china built-in soap holder and grab bar. Size, 6 x 6 in, in 3% in, recess. One of a complete line of china accessories.



C 24956. Toilet paper holder of vitreous china. Many other styles are available in either china or chromium to suit every taste.



C 24940. This vitreous china soap dish is easy to clean and always keeps the soap of hand where it is needed. A representa-tive item from the complete Crane line.



Priterion # Fittings

FOR MODERN
BATHROOM
FIXTURES

Graceful—new—beautiful—these modern Criterion fittings will add a distinctive charm to any bathroom. Their smart design is practical too—for the curved handles fit the palm easily and the working parts move smoothly and freely with a fine regard for even tender feminine hands. The strong, sturdy construction of the concealed parts represents the latest advance in valve design backed by Crane's years of experience in the manufacture of fine brass fittings. All wearing parts are easily removable.

Criterion fittings will harmonize with any bathroom fixture, but are particularly suited to the new Crane paneled fixture line, as the embossed panel that gives such distinction to the Criterion escutcheon matches the design in Crane bathtubs, lavatories and closets.

The charming *Criterion* design will please those who want the newest in modern fittings and yet it is so conventional it will suit more conservative tastes as well.



YOU CAN HAVE THE CHARM AND EFFICIENCY OF A Tane Fitchen

Modern Crane Kitchens are so charming and so pleasant to live in and yet they incorporate those step-saving and labor-saving features that mean duties quickly performed, more time for recreation.

Then, too, a Crane Family Planned Kitchen provides for those other duties that you want to do in your kitchen—a place to iron, perhaps—a corner where sewing may be done—even a convenient breakfast-nook, or a luncheon bar that makes midnight snacks both easy and pleasant.

The heart of any kitchen is the sink and Crane modern sinks have been designed to make housework easier—to fit in with the modern idea of what today's kitchen should be like. On the following pages you will find illustrated a few sinks from the complete Crane line. See them on display at your nearest Crane Branch or consult your Plumbing Contractor on the one best suited for your home.

To help you plan the kitchen you have always wanted, we have prepared a book "Family Planned Kitchens" filled with information of interest to every home owner. All the basic kitchen plans are described, and, in addition, many interesting time-saving and labor-saving ideas are illustrated. This book shows you how you can have an efficient, step-saving kitchen and at the same time one designed to help you do the things you want. A copy will be sent upon request to any one interested.





AMERICA'S FINEST SINK

A BEAUTY in appearance . . . the KITCHEN QUEEN is efficient and practical in service as well. Truly a luxurious sink, designed for the family that is satisfied only with the best. The KITCHEN QUEEN has two large sink compartments, each $8^{\prime\prime}$ deep and two depressed drainboards. The low back, only 4 in. high permits installation below a window and the one piece construction completely does away with any danger of water seepage.

Made of acid resisting enamel on cast iron—easy to clean and unaffected by household acids. RECEPTO strainers open waste at a touch of the finger so basins may be drained rapidly or closed to provide a dishwashing receptacle. Strainer cups lift out to permit removal of large waste particles. A swinging spout with mixing feature operates from a "comfort-angle" beveled panel back giving the user full and unobstructed use of entire basin areas.

Size 72 x 25 1/4", 36" from floor to rim. C 19070-S for free standing or continuous counter installations. C 19071-RS with right hand integral end or C 19171-LS with left hand integral end to fit in corner. C 19073-S with two integral ends for recess installation. Also furnished without hose spray. Can be furnished with right hand compartment designed for installation of a General Electric waste "Disposall."

FEATURES OF CRANE MODERN SINKS

Crane Modern Sinks provide many features that add to kitchen convenience—make work lighter. A retractable hose spray to reach every corner of the sink is a great aid in cleaning vegetables or washing dishes. Kitchen-Queen all-steel cabinets with baked-on enamel finish have recessed center section which permits user to assume a restful position. Fitted with removable fruit and vegetable compartments and sliding towel drying rack. Here are illustrated a few of the features that you should look for in the sink you buy.



Durable, Neoprene mats for protecting sink com-partments and drain-boards are available.

Crane sinks measure 36" from floor to rim—just the right height for comfort.



The 4" back permits installation below windows.





Wood cutting board with Kitchen-Queen. Upper drawers linoleum lined.



Recessed sub-base pro-vides ample toe room for added comfort.





strips permit continuous



THE Crane SUNNYDAY Sink represents the most modern advance in sink design. Of gleaming acidresisting porcelain enamel on cast iron, its one-piece construction leaves no insanitary cracks or crevices. EFFICIENT KITCHEN BEAUTY Large capacity basin, 8" deep, can be closed at outlet with the RECEPTO sink strainer. Drainboards are depressed. The 60" top is in one piece without insanitary cracks or crevices, and with rounded easy-toclean corners. The four inch back permits a lower window above the sink.

Convenient swinging spout gives tempered water and the "comfort-angle" panel places all controls at the finger tips. Retractable spray reaches every corner of the sink.

All-steel baked-on enamel finish flush front cabinet with roomy drawer and cupboard compartments.

Sizes 60 x 25 1/4" and 54 x 25 1/4", 36" floor to rim. C 19150-S as illustrated. C 19151-LS or RS, with left or right hand integral ends for corner installation. C 19153-S with two integral ends for recess installation. Also furnished without hose spray. SUNNYDAY sinks can be furnished with compartment designed for installation of General Electric waste "Disposall."

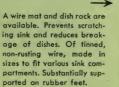


"Comfort-angle" supply panel with swinging mixing spout giving tempered water. Handy retractable rinsing spray. Safety ledge keeps glasses and cups out of harm's way, 8" deep compartments with stoppers are a great convenience.

The twin basins are available in the KITCHEN QUEEN and KITCHEN PRIDE, They make dish washing easier and lighten kitchen tasks.



A flip of the handle opens or closes the drain. Basket strainer may be lifted out and emptied without touching contents—a feature that sewives will appreciate.









Homemaker PRACTICAL CONVENIENCE IN A SMALL SIZE



Kitchen Fride

COMPACT DOUBLE

A compact, double compartment sink with 8" deep compartments. Ideal for continuous counter installation.



C 19987 cabinet has flush front and two large storage compartments. Inside the cabinet are four side shelves. Has "comfort-angle" supply panel, swinging mixing spout and rinsing spray. Made of acid-resisting porcelain enamel on cast iron. C 19083-5 size 38 x 25 1/4", 36" floor to rim.

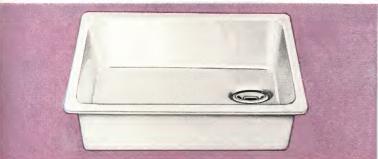
KITCHEN PRIDE Sinks may be had without spray if desired, also with right hand compartment designed for General Electric waste "Disposall"

HOMEMAKER. Practical convenience in a small size. This compact fixture has single depressed drainboard, "comfortangle" supply panel, 8" deep basin, and 4" back. A swinging spout and RECEPTO strainer are also furnished. Made of acid-resisting porcelain enamel on cast iron.

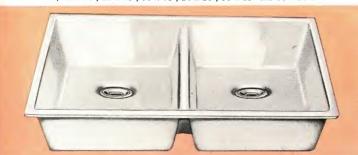
Cabinets are of all-steel construction with baked-on enamel finish. Drawers and shelves provide ample storage space. Top drawer is linoleum lined and fitted with sliding cutlery tray. Sizes 42" long, 25 1/4" deep and 52" long, 25 1/4" deep. 36" floor to rim. C 19158-RS with right or 19158-LS with left hand drainboard. For corner installation may be had with 4" back extending around the ends on the basin side only, C 19161-RS for right hand corner. C 19161-LS for left hand corner. Homemaker sinks may be had without spray if desired.



C 19230-B. Single drainboard cabinet sink. 42 x 20" or 52 x 20", 6" deep basin with Recepto waste. Back is 8" high. Available with right or left hand drainboard.



C 19350. 6" deep, flat rim sink. End outlet and Recepto waste. Sizes: $18 \times 12''$, $20 \times 14''$, $20 \times 16''$, $24 \times 16''$, $24 \times 18''$, $30 \times 18''$, $24 \times 20''$, $30 \times 20''$ and $36 \times 20''$.

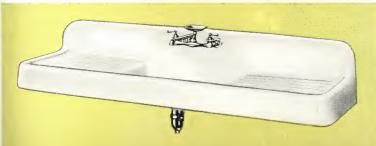


C 19356. A two compartment $8^{\prime\prime}$ deep sink. Has Recepto wastes. Comes in two sizes: $32\times20^{\prime\prime}$, and $42\times20^{\prime\prime}$.



C 19-194. Apron type single drainboard sink. Wall hung or with 2 legs. Sizes: $42\times20^\circ$, $52\times20^\circ$ and $52\times22^\circ$; 6° apron and 6° deep sink, 8° back. Sink has Recepto waste.

C 19184. Apron-type sink, Wall hung or on 2 legs. Sizes: 60 x 20" and 60 x 22", 6" apron and 6" deep sink, 8" high back.





C 19228. Double-drainboard cabinet sink. Length 60", depth 22", height of back 8", 6" deep sink compartment with Recepto waste.

Sinks for any kitchen arrangement in the crane line

REGARDLESS of personal taste in kitchens, there is a Crane sink designed to suit every home as well as every pocketbook. In the complete Crane line you will find sinks with or without cabinets, sinks with double or single drainboards, sinks that will fit against the wall, in a corner, in a recess or below a window. But regardless of the sink you select, you can be sure that there is only one Crane quality—the highest. Consult your Plumbing Confractor who will gladly help you choose just the right sink for your needs.

All 8" high back sinks have RAINIER Swinging spout faucets with renewable seats, Newsleeve trimming units and removable metal soap dishes. All may be had in acid-resisting or regular porcelain enamel on cast iron.





ASHFORD Combination Sink and Laundry Tub C 21000. Cabinet style or with single leg support, Porcelain enamel on cast iron. Swinging mixing spout, 42" long, 25½" wide. Has RECEPTO waste in sink compartment and interchangeable acid-resisting porcelain enameled steel drainboard.



BELMONT Combination Sink and Laundry Tub C 21010. Single leg or twoley style. Porcelain enamel on cast iron. Swinging mixing spout. 42" long 25½ wide Has RECEPTO waste in sink compartment and interchangeable acid-resising porcelain enameled steel drainboard.

Crane Combination SINK AND LAUNDRY TUBS



Efficiency IN THE LAUNDRY



CORRECT equipment in the laundry saves time and makes work easier. Crane laundry tubs of the right height, with hard, durable, easily cleaned surfaces, rounded corners and handy swinging spouts are a blessing on wash days. In glistening white, they are an attractive and important part of a cheerful, efficient laundry. Available in sizes and styles to meet every need.

C 21253. Porcelain enamel inside, painted outside, cast iron flat rim tubs. Compartments in 24 x 20", 24 x 22", and 25½ x 25½" sizes. Painted steel supporting frame.



C 21179. Battery of single compartment EVERBRITE porcelain laundry tubs on painted adjustable frame. Individual tubs $24\times24^{\prime\prime}.$ Swinging mixing spout.



C 21294. Two-compartment cement composition laundry tub with steel supporting frame and metal rim. Sizes: $24 \times 48^\circ$, $54 \times 24^\circ$, and $60 \times 24^\circ$. Three-compartment style, $72 \times 24^\circ$.





CRANE Complete Fleating

REGARDLESS of the fuel you wish to burn—whether it be coal or coke, oil or gas, you will find in the complete Crane line a boiler designed to burn that fuel most economically—most efficiently.

Besides the boiler, a Crane Complete Heating System includes radiators, convectors, controls, valves and fittings—everything needed for the complete system. And because *all* the equipment carries the name Crane—because *all* of it is guaranteed by a single manufacturer, Crane Co., you are assured of a heating system with every part designed to work efficiently with every other part—the whole for maximum comfort and satisfaction.

The following pages contain heating suggestions that may assist you in selecting a suitable system for your home. Consult your Heating Contractor, your Architect or your nearest Crane Branch on how you can enjoy the comfort of a Crane Complete Heating System.



If you are interested in better heating, you should have a copy of the Crane Book "Choosing the Heating System for Your Home." It contains valuable information on all heating systems and helps you answer any question that may be in your mind on the heating of your home. A copy will be mailed to you upon request.



CRANE NO. 10

Boiler

Designed to burn coal or coke, oil or gas efficiently and economically. Can be installed to burn coal and later converted to other fuel if desired.

The New Crane No. 10 Boiler incorporates all those features that Crane Research and modern heating practice have proved desirable in home heating. This boiler is most economical in fuel consumption. Because of the flue design, more heat is absorbed from the gases as they travel back and forth through the flues until all available heat is transmitted to the water. Bubbles that form on the inside of the boiler and actually insulate against heat, wasting fuel dollars, are scrubbed away by the rapid flow of water. Created by the patented baffle of exclusive Crane design.



- Designed to burn any fuel. Oil burner or gas burner may be installed at the front, stoker at front or side.
- Removable grate supports and high base, facilitating installation of stoker at a later date inexpensively.
- Built-in water heater can be furnished to provide an inexpensive supply of hot water.
- Door handles are non-heating and hinges are concealed.
- Extra large firebox means less frequent firing.
- Handsome dark green jacket extends to floor.
- Large ash-pit door means easy ash removal.
- Clinkers cannot force grates out of position—non-jumping sockets keep them in place.
- A quick installation—free from leaks—is assured because every boiler is assembled and tested before it is shipped.

No. 16

Sustained Heat Boiler Burner Unit

Unhampered by tradition, Crane engineers designed this complete packaged unit to heat the home most economically and efficiently using oil as a fuel.

The Sustained Heat Principle, exclusive with Crane prevents the escape of heat when the burner shuts off. The trapped hot gases are confined at the top of the boiler and are conducted downward as they cool, released only when their heat has been utilized. This means that all the heat is extracted from the fuel you burn, giving greater economy.

The Sustained Heat Boiler together with the burner is completely enclosed in an insulated steel jacket which has a heavy green enamel finish baked on. It has an indirect water heater which will provide large quantities of hot water for laundry, bath and kitchen day and night, summer and winter, at a very low cost.





The Basmor Boiler meets every requirement of house heating with either manufactured or natural gas. Safe and trouble-free, its operation is completely automatic, convenient and economical. Basmor controls are designed to protect against every emergency—even against the failure of the controls themselves. High efficiency is attained through Basmor staggered fin construction by which hot gases are thrown backward and forward and sidewise, setting up a swirling or spiral motion that scrubs every square inch of heating surface. There are three models in Basmor Boilers —Series 20, Series 25 and Series 40—covering a wide range of heating demands.

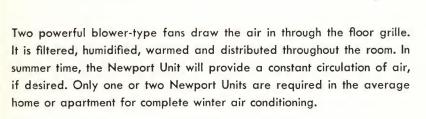


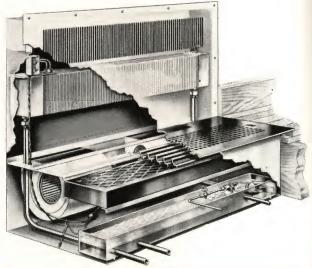


Newport

AIR CONDITIONING UNIT

Here is the latest development in winter air conditioning—a ductless unit designed to give you clean, filtered air, warmed to the degree you desire, properly humidified for health. It can be quickly installed in a two-pipe steam or forced hot water system—each unit replacing an equivalent amount of radiation. Fully recessed in the wall, the only visible parts are the attractive grilles in wall and floor.





LEWIS SPLIT SYSTEM

This system is a combination of steam or hot water heating with forced warm air. Certain rooms of the house may be heated by radiation, while others may be heated with warm air. This system can be had for coal, oil or gas operation as desired. The air is filtered, humidified and warmed before being distributed. The Split System also permits of a year-round supply of domestic hot water from the boiler.





CRANE STOKER AND OIL BURNER GIVE YOU

Automatic Heating The Conservoil Burner presents the latest developments in the simple, efficient burning of oil. A specially designed fan and housing keep the air moving at a steady rate of flow and the Conservoil Burner thus assures quiet, steady action. The "floating flame" burns in complete suspension, giving clean operation. The design of the burner is extremely simple, with only one moving part. The Conservoil Burner is precision made throughout, smartly and attractively finished.

AUTOCOAL STOKER

The Autocoal Stoker, by proper combustion, obtains more heat units from the fuel; handles smaller sizes and cheaper grades efficiently; and by keeping temperature even, saves much fuel which would otherwise be wasted in the form of gases and smoke up the chimney.

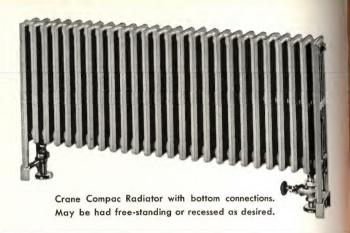
Because of the principle of forced under-feed firing, combustion is so nearly complete that the smoke nuisance is eliminated.





THE new Compac Radiators will save space because of their graceful thin tubes that also mean greater heating efficiency. May be installed as free standing radiators or recessed in the wall either with or without decorative panel. They provide beauty and the added comfort of infra-red radiant heat.

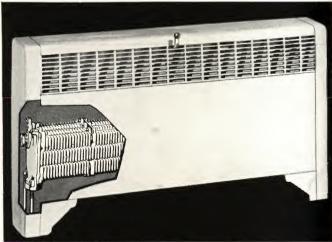




CRANE COMPAC Radiators

ONVECTORS

CRANE Convectors conform to modern demands of interior decorative treatment—attractive in appearance, they may be recessed in the wall if desired. The heating element is of cast iron with a multitude of fins. The air is drawn in at the bottom, warmed and distributed through the grille. Made in types and sizes to suit any installation.





GAS AND ELECTRIC Water Heaters

Hot water—piping hot—all you want any time night or day—no delay—just turn the faucet—that is a convenience made possible by a Crane Water Heater—either gas or electric.

Fortunately, the luxury of such hot water service is economical. Crane Water Heaters are more careful of gas or electric bills than you could be. The heat shuts off the instant the water reaches the exact degree determined. The operation is thrifty, as only a fully automatic, fully insulated water heater could be. There are sizes and prices for every home.



WARLO WATER CONDITIONING

No matter what its source—municipal, private well, river, lake, spring or cistern—several things may be wrong with the water you use. It may be discolored; it may have a disagreeable taste or odor; it may be hard, corrosive or actually dirty. In TODAY'S home, people have automatic heat—they have conditioned air—but the problem of water and its quality is equally important.

The water used by the average home owner may shorten the life of clothes, increase the cost of heating, harm the complexion and even make vegetables tough and less appetizing.

Whatever your problem, there is a Warlo water conditioning unit to fit your needs. All are simple to operate and require a minimum of attention. Be sure to consider well this added convenience that actually pays for itself.



CRANE

Deep and Shallow Well Gumps

Running water—lots of it, at the turn of a faucet—is a convenience now considered a necessity to modern civilization. No matter where you are—what your source of supply—spring or lake, deep well or river—a Crane running water system will assure you ample quantities. In rural communities, on farms and in small towns, in summer cottages, the necessity of running water is obvious, a necessity filled economically by a Crane pump.



Pumps and Water Systems for service requiring up to 350 gallons per hour at 40 pounds

pressure.



An installation of a Crane Shallow Well Pump conveniently located in the basement.



Models SC-25 and SC-30 designed for heavy-duty service, have a capacity of 330 gallons per hour.

Models S-40 and S-50 Pumps and Water Systems for service requiring a pumping capacity up to 550 gallons per hour.



CRANE CO.

PRICE GUIDE

"PLUMBING AND HEATING FOR THE MODERN HOME"

CIRCULAR AD-1409-JANUARY, 1940

(PRICES REVISED—JULY, 1940)

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs. For installed price, consult your plumbing or heating contractor. Freight or drayage may be extra, depending upon proximity to point of shipment.

Fixtures in color can be furnished in a choice of the following Crane colors:

No. 400-A Orchid Pink No. 405 India Ivory

No. 410 Citrus Yellow No. 415-A Pale Jade

No. 425-B Lucerne Blue No. 450 Black

No. 485 Persian Red No. 495 Sun Tan

	Size	N771. :	Calan		C:	3071.	Cala
(Page 4)	Size	White	Color	(Page 6)	Size	White	Color
C 3225-RV95 Neuvogue Bath (less curtain)	5' 5½'	\$102.30 109.00	\$120.25 129.00	C 128 Neuvogue Lavatory	27x22"	\$94.70	\$110.40
For Acid-resisting Enamel, Add	5' 5½'	6.75 7.50		C 129-L13 Diana Lavatory	24x20" 27x21"	54.75 64.30	64.95 79.30
C 128 Neuvogue Lavatory	27x22"	94.70	110.40	C 154-WM11 Norwich Lavatory	20x18" 24x21" 27x22"	41.85 47.50 55.65	48.95 57.95 70.95
C 10381 Neuvogue Closet		97.50	136.30	C 183 Oxford Lavatory on Metal Legs	19x17"	40.95	49.40
C 3190 Neuvogue Receptor Bath (less curtain). For Acid-resisting Enamel, Add	4′	104.10 9.00	122.10	C 610 Oxford Lavatory, wall hung	19x17"	28.90	37.35
C 167 Drexel Lavatory	22x18" 27x21"	58.25 67.05	71.15 85.70	C 180-V12 Sterling Lavatory	20x18" 24x21"	40.75 42.65	53.65 55.80
C 10490 Manor Closet		50.20	71.80	C 2502 Neuday on Metal Legs	19x17" 24x18"	29.65 32.75	32.65 36.75
				C 2500 Neuday, wall hung	19x17" 24x18"	17.55 20.70	20.5 5 24.70
(Page 5)				C 2504 Nouday with White or Ivory Cabinet.	19x17" 24x18"	31.60 35.10	33.65 39.10
C 3306-LB93 Coronova Bath (less curtain)	4½' 5' 5½' 6'	63.90 67.40 73.20 103.00	77.65 82.20 89.85 123.00	For Colored Cabinet, Add			2.50
For Acid-resisting Enamel, Add	4½' 5' 5½'	5.20 5.55 6.25		(Page 7)			
(6'	1		C 167 Drexel Lavatory	22x18" 27x21"	58.25 67.05	71.15 85.70
C 610 Oxford Lavatory	19x17"	28.90 34.80	37.35 49.05	C 281 Coronet with White or Ivory Cabinet	24x20"	60.20	72.70
C 3285-RB93 Coronova Bath (less curtain)	4½' 5' 5½'	74.55 76.35 82.95	90.60 93.00 101.70	For Colored Cabinet, Add			3.75
For Acid-resisting Enamel, Add	6' 4½' 5'	6.00 6.25	135.30	C 1991 Coronada-Lavinet with White or Ivory Cabinet	24x20"	38.45	45.00
	5½' 6'	7.05 10.90		C 2315 Kent Corner Lavatory	16½x16½″ 19x19″	20.45 22.95	
C 2500 Neuday Lavatory	19x17" 24x18"	17.55 20.70	20.55 24.70	C 2151 Rhodile Lavatory	20x18"	19.20	22.10
For Acid-resisting Enamel, Add	19x17" 24x18"	.95 1.35		C 2254 Carolina Lavatory	19x17"	13.15	
C 11125 Neuton Closet		24.65		C 1223 Dentrix Lavatory	12x12"	22.65	29.25

All prices subject to change without notice

CLOSET COMBINATIONS		White	Color	(Page 11 Cont'd)		Size	Price
(Pages 8 and 9)		willte	COIOL	C 26892 Luminary Recess Cabinet:		19-245	\$20.14
C 10381 Neuvogue		\$97.50	\$136.30	Unframed		18x24" 18x26"	\$28.15
C 10384 Siwelclo		63.80	89.15	Framed		18x24"	33.00
C 10490 Manor		50.20	71.80			.18x26"	34.0
C 10541 Santonia		46.95	62.75	KITCHEN SINKS Size		White	Color
C 11000 Merit		34.80	49.05	(Page 14)			-
C 11004 Hanover		28.25	40.50	C 19070-S Kitchen Queen		\$148.55 151.05	\$160.5 163.4
C 1125 Neuton		24.65				153.55	166.4
C 11145 Neuton.		Appl.		Neoprene Sink Mats for Kitchen Queen,			0.2
				Set of four		5.80	
(Page 10)	Size	White	Color	(Page 15)			
Control Par N Park	5'	60.65	76.25	C 19150-S Sunnyday	54x25"	91.45	99.0
C 3240-LB27 Neuvogue Bath	51/2'	66.25	83.75	Capital IS and BC Committee	60x25"	100.40	108.3
For Acid-resisting Enamel, Add	5'			C 19151-LS or RS Sunnyday	54x25" 60x25"	93.95	102.0
· ·	51/2'			C 19153-S Sunnyday	54x25"	96.45	105.0
C 3370-LC27 Verna Bath	41/2'			For Colored Cabinet, Add	60x25"	105.40	114.2
(51/2'	60.55		Neoprene Sink Mats for Sunnyday,			
				Set of three. Wire Sink Mat.		1.55	
		C:	D :	Wire Sink Basket		2.50	
(Page 11)	_	Size	Price				
C 4265 Twin Valve Shower		3/2"	\$ 9.30	(Page 16)			
C 4364-B Mixing Valve Shower with Stops 1/2"		1/2"	Disc.	C 19083-S Kitchen Pride		81.50	87.8
C 4392-B Mixing Valve Shower		1/2"	10.70	For Colored Cabinet, Add		1	3.1
(3		30x76"	*75.00				
		32x76" 36x76"	*80.00 *87.50	Set of two			
Corner Entrance Type		36x76"	*95.00	C 19158-LS or RS Homemaker		72.00 82.15	77.5 89.9
Regularly furnished in White. For Color, Add			5.00	C 19161-LS or RS Homemaker		74.50	80.5
*F.O.B. Elkhart, Ind.				For Colored Cabinet, Add	52x25"	84.65	92.9
C 4871-B Economy Shower Head		1.80	Neoprene Sink Mats for Homemaker, Set of two		4.25		
C 4875-B Refreshor Shower Head	1	1/8 or 1/2"	2.20				
C 5090 Rubberceptor		39.50	(Page 17) Size		hite	Color	
Aluminum Finishing Strips where necessary, Set of 4		3.00			Acid	Acid-	
		ļ			Regular	Resist.	Resist
	Size	White	Color	C 19177 Corland on Legs 60x24	,	\$60.10	\$69.7
	JILC	Alte	30101	C 19177 Corland on Legs		87.55	96.8
C 24925 China Towel Bar	18" 24"	\$2.85 3.50		If Legs, Deduct		5.70	6.9
C 2492) China 10wei Bar	30" 36"	3.80	5.55	C 19184 Apron Sink		41.90	51.
C 24040 China Same Diah				If with Legs, Add		44.85	6.9
C 24940 China Soap Dish		1.65		11 with Legs, Add		30.75	35.8
		1.70		C 19194 Apron Sink	41.20	43.55	51.8
C 24975 China Soap Holder		2.25	3.70	52x22	44.25	46.80	55.

		White		Color	
(Page 17 Cont'd)	Size	Regular	Acid- Resist.	Acid- Resist.	
C 19228 Roll Rim Cabinet Sink, with White or Ivory Cabinet	60x22"	\$66.55	\$68.75	\$76.35	
C 19230-LB or RB Roll Rim Cabinet Sink with White or Ivory Cabinet	42x20" 52x20"	46.10 55.70	47.35 57.45	51.75 63.40	
C 19350 Flat Rim Sink	18x12" 20x14" 20x16" 24x16" 24x18" 30x18" 24x20" 30x20" 36x20"	6.85 7.15 7.50 7.15 8.45 7.60 8.70 8.75 12.65	7.15 7.50 7.90 7.50 8.95 8.00 9.20 9.25 13.40	8.40 8.75 9.25 8.75 10.50 9.40 10.90 10.95 16.10	
C 19356 Flat Rim Two-Compartment Sink	32x20" 42x20"		19.60 25.85	22.60 30.05	
SINKS AND LAUNDRY TU	BS	Size	White	Color	
(Page 18)					
C 21000 Ashford Combination Sink and Laundry Tub (less drainboard)			59.85 22.45 3.30	65.60	
C 21010 Belmont Combination Sink and Laundry Tub (less drainboard)			40.05 2.55 3.80		
C 21129 Everbrite, Two-part		40x27" 24x24"	46.70 70.30		
C 21253 Enameled, Two-part		24x20" 24x22" 25x25"	29.65 33.50 50.30		
For Acid-resisting Enamel, Add	{	24x20" 24x22" 25x25'	2.50 2.80 5.00		

C 21294 Composition.....

CRANE HEATING EQUIPMENT (Pages 19 to 25)

For Prices on *Grane* Boilers, Oil Burners, Stokers, Automatic Controls, Radiators and Water Heaters, Refer to your *Grane* Plumbing or Heating Contractor.

Crane Co. is in a position to furnish any type of Heating Equipment. Representatives are available at all Crane Branches, who will be pleased to discuss and recommend the proper type of Heating Equipment for your Home. Take advantage of this opportunity to avail yourselves of Crane Service at no cost to you.

CRANE WARLO WATER CONDITIONING (Page 25)

Crane Co. is in a position to furnish Water Conditioning Equipment for the removal of hardness, iron, acid or alkaline, dirt or bad taste and odor, as well as neutralizers to inhibit corrosion of water distributing systems. Crane Co. Representatives are available at all branches, who will be pleased to inform you as to the proper water conditioning equipment necessary in your particular location. Take advantage of this opportunity to avail yourselves of Crane Service at no cost to you.

CRANE PUMPS AND WATER SYSTEMS	
(Page 26)	
Shallow Well Water Systems, complete with 42 gal. Storage Tank, Electric Motor, Relief Valve, Pressure Switch and Fittings:	
K-250-A K-375-A SC-25-A SC-30-A	*\$ 72.00 * 76.00 * 78.00 * 82.00
Deep Well Pumping Systems, complete with 42 gal. Tank.	
D-60-A D- 9-A *F.O.B. Chicago, Ill.	* 127.50 * 224.00

CRANE CO.

VALVES, FITTINGS, FABRICATED PIPE, HEATING AND PLUMBING MATERIAL

GENERAL OFFICE 836 S. Michigan Avenue, Chicago

MANUFACTURING PLANTS

Chicago · Bridgeport · North Tonawanda, N. Y. · Chattanooga · Trenton

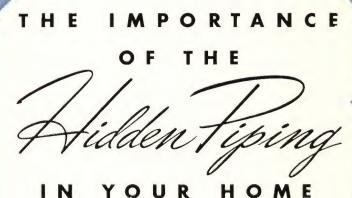
(See next page for nearest Crane display room)

AN INVITATION

To simplify the selection of plumbing and heating products for your new home Crane Co. cordially invites you to visit its display rooms. Here you will find the latest fixtures, attractively displayed, and representatives in attendance who will be pleased to advise you. Ask your architect or your contractor to take you to the nearest Crane display room in any of the following cities:

contractor to take you to the ne	arest Crane display room in any	of the following cities:
ALABAMA	MAINE PORTLAND	PENNSYLVANIA
ALABAMA BIRMINGHAM		ALLENTOWN (Hertz Supply Co.)
MONTGOMERY (Teague Hardware Co.)	BALTIMORE	CHESTER (Desco Corporation)2nd & Welsh Sts.
	MARYLAND BALTIMORE	ERIE (Erie Concrete & Steel Supply Co.) 1301 Cranberry St. LANCASTER (Herr & Co., Inc.)
PHOENIX	MASSACHIUSETTS	LANCASTER (Herr & Co., Inc.) Prince & Chestnut Sts.
Tucson	BOSTON48 W. First St., South Boston Pittsfield (Pittsfield Mill & Plbg. Supply Co.)	New Castle (Lawrence Supply Co.) 19 W. Lawrence St. 19 W. Lawrence St.
ARKANSAS FT. SMITH		PHILADELPHIA
	Springfield	PITTSBURGH
CALIFORNIA FRESNO (Barrett Hicks Wholesale Sup. Co.)	MEXICO	Gulf Oil Building, Grant & 7th Sts. PITTSBURCH (Malone Plumbing Supply Co.)
1027 Broadway St.	Monterrey (Nicolas Brandi) Mexico D. F. (Cia. Electrica de Mexico)	PITTSBURGH (W. G. Balph Co.)
CALIFORNIA	SAN Luis Potosi (Deutz Hermanos)	PITTSBURGH (W. G. Balph Co.) READING
Los Angeles	MICHIGAN	Uniontown (S. E. Williams Supply Co.)
OAKLAND. 346 Ninth St. PASADENA. 321 South Broadway Ston-Market St. 1227 Front St.	DETROIT	WILLIAMSPORT (FIOR WIKINSON CO.). 434 COURT St.
SACRAMENTO	GRAND RAPIDS 56 Grandville Ave., S. W.	Wilkes-Barre (Luzerne Lackawanna Supply Co.) 20 N. Pennsylvania Ave. York (Careva Company, Inc.). 545 E. Princess St.
SAN BERNARDING	FLINT	
SAN DERORATION 11 South 12 Stan SAN DIEGO 1138 India St. SAN FRANCISCO 301 Brannan St. SANTA ANA 919 Poinsettia St. SANTA BARBARA 136 State St.	SAULT STE. MARIE (Soo Hardware Co.)	RHODE ISLAND APPONAUG (Warwick Plumbing Supply Co.)
SANTA BARBARA	SUU ASIIMUII St.	8-12 Post Rd. PROVIDENCE
COLORADO DENVER (Crane-O'Fallon Co.) 1631 Fifteenth St	MINNESOTA DULUTH	
DENVER (Crane-O'Fallon Co.) 1631 Fifteenth St GRAND JUNCTION (Crane-O'Fallon Co.)	MANKATO	SOUTH CAROLINA GREENVILLE
PUEBLO (Crane-O'Fallon Co.) 216 W. Third St.	MINNEAPOLIS (Goodin Co.) 707 N. Third Ave.	GREENWOOD (Greenwood Supply Co.) SUMTER (Sumter Railway & Mill Supply Co.)
CONNECTICUT	District in the second of the	
BRIDGEPORT .302 John St. HARTFORD .710 Windsor St. New Haven .365 Orchard St.	MISSISSIPPI	SOUTH DAKOTA ABERDEEN
New Haven	JACKSON	ABERDEEN
DELAWARE WILMINGTON (Desco Corporation)211 Shipley St.	208 19th Ave.	TENNESSEE
DISTRICT OF COLUMBIA	MISSOURI KANSAS CITY	Bristot, (Interstate Hardware Co.)
Washington	KIRKSVILLE (Kirksville Plumbing Supply Co.)	
FLORIDA CONTINUE CO	St. Louis	KINGSPORT (Dobyns-Taylor Hardware Co.)
JACKSONVILLE	MONTANA BILLINGS	116-120 Broad St. 116-120 Broad St. KNOXVILLE 523 W. Jackson Ave. Memphis 254 Court Ave. NASHVILLE 532 Eighth Ave. S. S. S. S. S. S. S.
MIAMI BEACH	GREAT FALLSGreat Northern Ry. Yards	Nashville
PORT ST. JOE (Gulf Hardware and Supply Co.)	NEBRASKA	TEXAS
SARASOTA (Gulf Coast Equipment Co.)	NEBRASKA GRAND ISLAND	AMARILLO (Morrison Supply Co.) AUSTIN (MILSTEAD CO
TAMPA	NEVADA	BEAUMONT
	Las Vegas (Standard Wholesale Supply Co.)	CORPUS CHRISTI
ATLANTA Washington St. Viaduct AUGUSTA (H. C. Tennent Supply Co.)	RENO401 E. Fourth St.	DALLAS. South 12th St. Denison (Chris Waltz) 201-203 W. Woodard St.
GEORGIA ATLANTA Washington St. Viaduct AUGUSTA (H. C. Tennent Supply Co.) 1251 Broad St. COLUMBUS (Columbus Iron Works) . 901 Front St. MACON 500 Broadway SAVANNAH 14 W. Broad St.	NEW HAMPSHIRE LACONIA (Laconia Plbg. & Htg. Supply Co.)	Denison (Chris Waltz)201-203 W. Woodard St.
Macon	Laconia (Laconia Plbg, & Htg. Supply Co.)	EL PASO (Crane-O'Fallon Co.) 1609 Texas St. FT. Worth (Morrison Supply Co.) HARLINGEN 201 West "C" St. Houston 2205 McKinney Ave.
	NEW JERSEY ATLANTIC CITY (National Exhibit Rooms)	HARLINGEN
IDAHO BOISE	7401 Boardwalk	Longview (East Texas Plumbing Supply Co.)
	Camden. 134 Federal St. Morristown (Morristown Plumbing Supply Co.) 110 Park Place Newark. 90 South St. Trenton. 50 Escher St.	LUBBOCK (Morrison Supply Co.)
AURORA	NEWARK 90 South St	SAN ANTONIO
AURORA.	TRENTON	WICHITA FALLS (Morrison Supply Co.)
PEORIA (Connor Co.)205-211 S. Water St.	NEW MEXICO	UTAH Transish St. and Wall Ass
ROCKFORD	NEW MEXICO ALBUQUERQUE (Crane-O'Fallon Co.)	OGDEN
WAUKEGAN1219-Glen Rock Ave.		VIRCINIA
INDIANA EAST CHICAGO	NEW YORK ALBANY	NORFOLK. 2 E. Twenty-second St. RICHMOND. 1223 W. Broad St.
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MUNCIE	HEMPSTEAD	WASHINGTON
Terre Haute	ROCHESTER	WASHINGTON SEATTLE
IOWA DAVENPORT	UTICA	SPOKANE. S. 126 Post St. TACOMA 1209 South "A" St.
DES MOINES (L. H. Kurtz Co.), 312-314 Walnut St.	NORTH CAROLINA	
Displicite (Kretschmer-Tredway LO)	ASHEVILLE	WEST VIRGINIA BECKLEY (Raleigh Hardware Co.)
9th & Washington Sts. MASON CITY. 19 Eighth St., S. E.	GREENSBORO 205 Lyndon St. WILMINGTON (Longley Plbg. Supply Co.)	BLUEFIELD (Superior Sterling Co.)
SIOUX CITY Jackson St.		CHARLESTON
KANSAS LEAVENWORTH (Tholen Bros. Supply Co.)	NORTH DAKOTA	CHARLESTON
304-312 Shawnee St. WICHITA	FARGO	HUNTINGTON (Emmons-Hawkins Hardware Co.)
KENTUCKY	CANTON	LOGAN (Logan Hardware & Supply Co.)
ASHLAND (Ben Williamson & Co., Inc.)	CINCINNATI	WHEELING (Wheeling Machine Products Co.)
LEXINGTON	COLUMBUS. 67 N. Front St. LIMA. 207 S. Central Ave.	20th and Main Sts.
LEXINGTON	OKLAHOMA	WISCONSIN 641 Williamson St
LOUISVILLE (Laib & Co.)	Muskogee302 Commercial St.	MADISON
	OKLAHOMA CITY	OSHKOSH
LOUISIANA Baton Rouge (Levingston Supply Co.)		WYOMING
1449 Florida St. New Orleans 146 Baronne St. Shreveport 1320 Winston St.	OREGON PORTLAND	Casper (Crane-O'Fallon Co.) 802 East "C" St.
SHREVEPORT	308-14 Front Ave., S. W.	





THE comfort you receive from the heating system you install—whether your bathtub drains quickly or whether the water in your lavatory flows freely—depends, in a large measure, upon the piping. Concealed in your walls, beneath the floor, are the vital supply lines that bring you fresh water—the pipes that remove disease-breeding wastes.

Good workmanship plus good materials will guard your comfort—your health, as well. Your licensed plumbing and heating contractor can lay out the piping for maximum convenience and efficiency—Crane valves and fittings will guarantee that that piping will give you trouble-free service.





CRANE-EQUIP FOR SATISFACTION

PLUMBING

HEATING

WATER SYSTEMS

WATER CONDITIONING

AIR CONDITIONING

CRANE CO., 836 S. MICHIGAN AVE., CHICAGO

CRANE

THESE BEAUTIFUL SHADES SAVE YOU MONEY

they're Washable





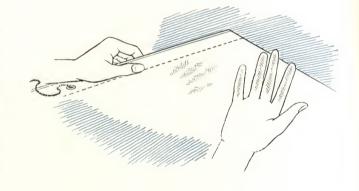
TONTINE WINDOW SHADES

"TONTINE" SHADES ARE MADE OF PYROXYLIN IMPREGNATED CLOTH

Soap and water makes them clean as new!

You wouldn't think of buying lace curtains that can't be washed. Then, don't get window shades that can't be scrubbed. Get "Tontine" washable shades. They're made of a special pyroxylin impregnated cloth that can be washed with soap and water. After a little scrubbing they look bright and clean . . . as crisp and new as the day you bought them.

"Tontine" shades are remarkably durable.





They won't crack, fray or pinhole! Rain won't hurt them! Sunshine won't fade them! And no matter how often you wash "Tontine" shades, they keep their original color. And they save money in replacements—because they wear so long.

Read what these three women have to say about "Tontine" shades:



"We've had our 'Tontine' shades for years. They've been washed at least a dozen times—and look as nice now as the day I bought them."—Mrs. John L. Myles, Scarsdale, N. Y.



"The only shade used in The Sherry-Netherland hotel is 'Tontine.' They last longer and save money."

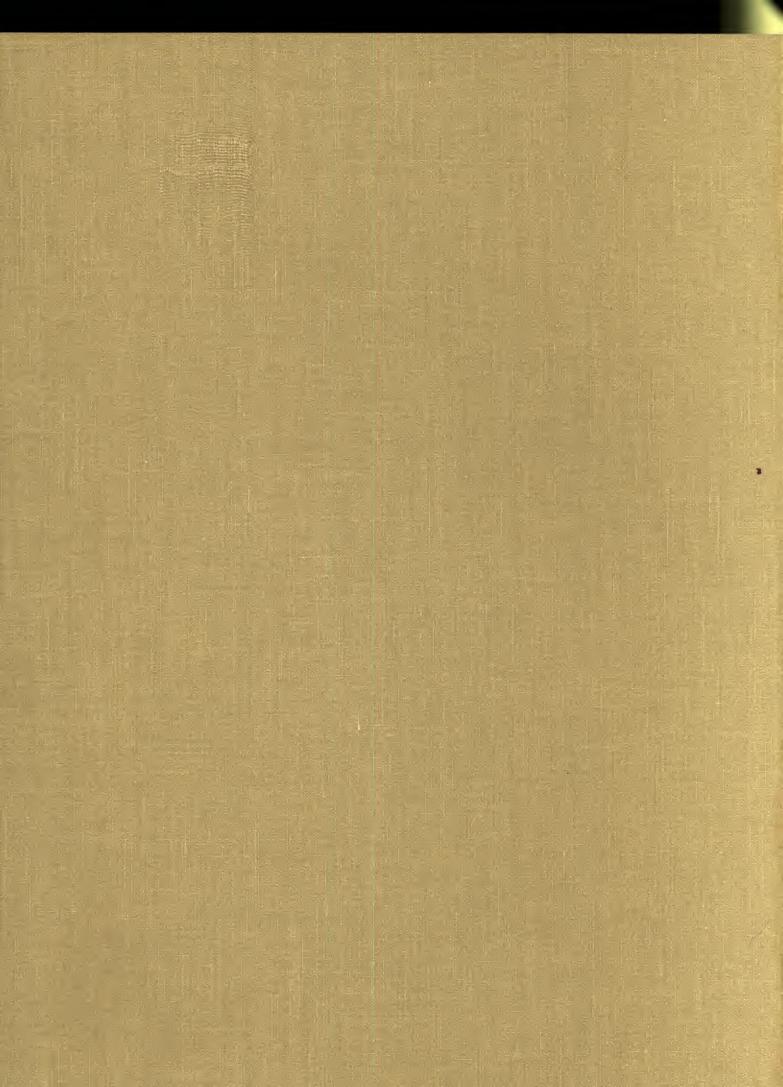
—Miss Anne Owens, Executive House-keeper, The Sherry-Netherland, N. Y. C.



"Our Tontine' shades get a thorough scrubbing during spring housecleaning. They certainly come clean. And we again have 'new' shades."—Mrs. Joseph A. Cuddihy, Phoenix, Arizona.

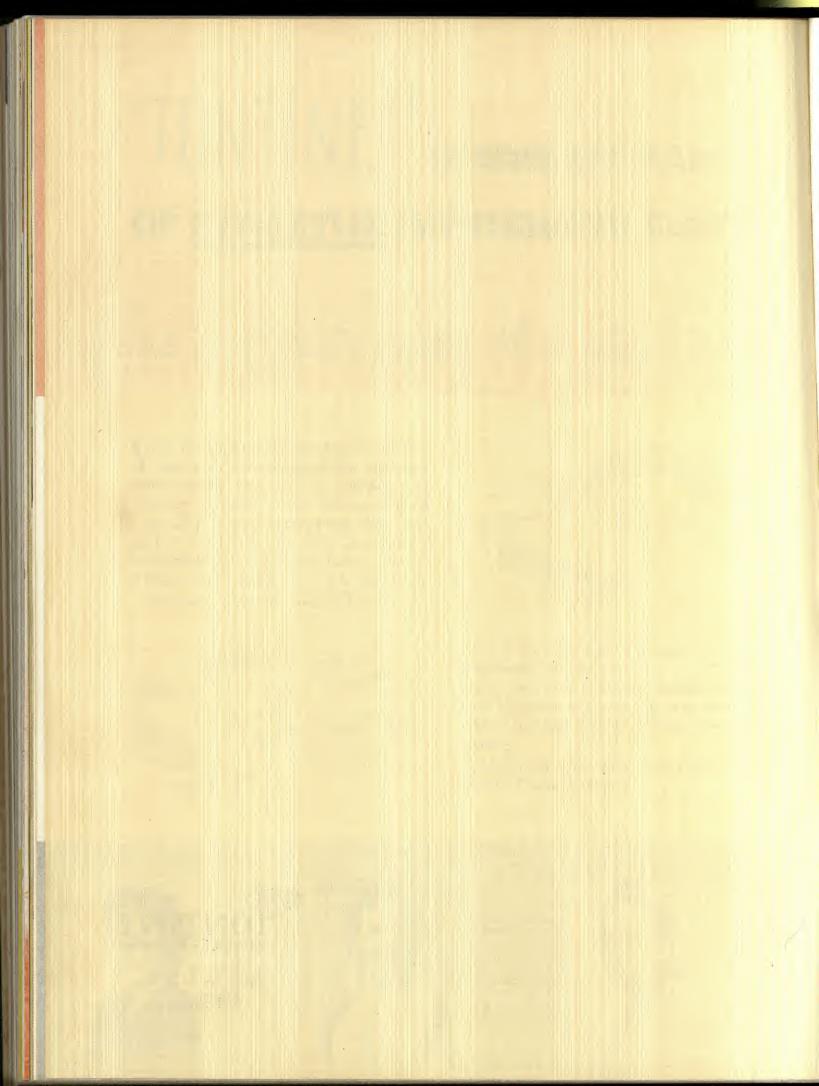


Color 506 SUNSET





Color C. T. 510 SUNRISE



YOU HAVE 35 LOVELY COLORS TO SELECT YOUR

"TONTHNE"

SHADES FROM!

THERE ARE cool, neutral colors that do wonders to a house on hot summer days—and bright, cheery ones for grey days during the winter. They range all the way from black or dark green opaque shades to the clear, translucent colors that let the light stream into your rooms. All "Tontine" shades are laboratory tested for light translucency—and laboratory tests show that they admit from 73% to 140% more light than ordinary painted cloth shades. Yet their pyroxylin processing keeps glare out. May we send you a sample book of "Tontine" shades in the newest colors and pattern effects. There is no obligation.

YOU'LL SEE "TONTINE" SHADES IN THE FINEST HOMES—SOLD BY AUTHORIZED DEALERS EVERYWHERE









MFGD. BY (PONT DE NEMOURS & COMPANY, INC.

"TONTINE" SALES NEWBURGH, NEW YORK

*"TONTINE" is du Pont's registered trade mark designating its pyroxylin impregnated washable window shade cloth.





KEEPS SCATTER RUGS FROM SKIDDING

BIG RUGS as well as little rugs are held securely in place with "Rug Anchor" sponge rubber nonskid. It won't let them skoot, skid, slide or creep. Trim it to any size rug—put it underneath—and forget about those slippery, highly polished floors. It makes rugs cling like a leech—and helps prevent your family and friends from possible costly, painful falls.

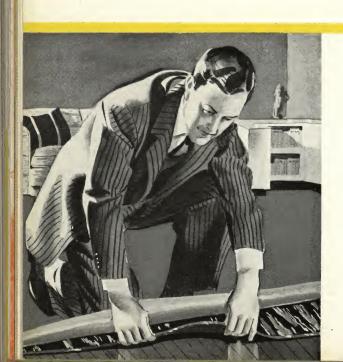
"Rug Anchor" is dust-proof and water-proof! It's rubber . . . so it

won't harbor moths! And its cushion effect lessens wear and makes rugs last longer. We'll be glad to send generous samples of this economical material.



VELVETEX"

MAKES ANY RUG FEEL THICK AND LUXURIOUS





ACTUALLY, it's like walking on air—your rugs feel so thick and soft! Tests show "Velvetex" sponge rubber rug cushion increases rug life as much as 140%. In one test 265,000 people were clocked as they tramped, tramped, tramped over "Velvetex" and it didn't

show appreciable wear.

"Velvetex" will wear for years in your home. It's sanitary, non-absorbent, moth-proof and can be cleaned with the vacuum or broom. See "Velvetex" at your local depart-

ment store or floor covering shop. Write for samples.

E. I. DU PONT DE NEMOURS & CO., INC., NEWBURGH, NEW YORK

*"Rug Anchor" and "Velvetex" are Reg. U. S. Pat. Off. by E. I. du Pont de Nemours & Co., Inc.

Greater comfort. WINTER AND SUMMER Presstitched REG. U.S. & CAN. PAT. OFF. Expanding Blanket INSULATION .. and the **Fuel Savings** soon PAY the entire cost Kimberly-Clark Corpor

Here's one investment you'll

Kimsul brings the cost of good insulation within the reach of every home . . .



In time, even the best roofs may need repairing... or replacing.



Furniture often goes out of style before it is outworn. Of all materials entering into the construction of your home, insulation probably offers the most lasting satisfaction . . . the greatest assurance that on some future day you won't say, "If I had my house to build over again, here's another thing I'd do differently."

For good insulation, properly installed, isn't like plumbing or furniture, which may go out of style before it is outworn. Neither is it like a heating plant, an air-conditioning system or a roof, subject to the expense of reconditioning and, sometimes, replacement.

Granting, of course, that you have made a wise selection . . . insulation will give you no reminders of its presence other than the pleasant coolness of your home during a hot summer and the comfortable warmth of it during long winter stretches.

So, if you are building, don't fail to insulate! But choose your insulation with care. For while roofs and heating systems can be repaired or replaced, insulation is sealed up in your walls where its replacement is a very expensive undertaking.



Age and use make repair and replacement of plumbing fixtures desirable or necessary.

But good insulation, such as Kimsul, if properly installed, doesn't cost anything to maintain . . . instead, it pays yearly dividends in comfort and in fuel savings.

Selecting Insulation Wisely

Selecting insulation which will give you complete and permanent satisfaction requires the use of judgment. Basically any material which is a non-conductor of heat can be called "insulation" but the variations in the comparative efficiencies among so-called "non-conductors" is great!

The Fuel Saved Soon Pays the Cost of

never regret



There is an easy way, however, to identify good insulating materials. All have one property in common . . . a high percentage of still air spaces. Thus, in tropical countries huts are thatched

with palm fronds because they have proved an effective barrier against the sun's heat. In the Antarctic, penguins enjoy sub-zero temperatures because their down conserves bodily warmth.

Still air spaces are nature's barrier to heat transmission. The percentage of them present in any material . . . rather than great thickness or extreme weight . . . are what determines its insulating efficiency.

Other Materials Bow to Wood Fibres

In the quest for materials which would provide still air spaces in a form practical for building insulation, all types of animal, vegetable and mineral substances have been tested.

Of them all, wood fibres possess the most practical qualifications. They are clean, odorless and unlimited in supply. Good insulation can be made from them cheaply enough to meet every home-builder's budget.

Hence, it is only natural that Kimberly-Clark should assume a leader's role in the field of insulation. As one of the largest and oldest concerns engaged in developing and manufacturing wood fibre products, it has the experience, organization, and facilities needed to develop wood fibre insulation of unique excellence.

In Kimsul it evolved a material which deserves the recognition accorded it.

Two Kimsul Developments are Revolutionizing Building Insulation

In making Kimsul, research and experiment did not stop with a wood fibre insulation which met usual requirements. On the contrary, it continued until a new and better form had been perfected . . . Presstitched KIMSUL in Expandable Blankets, which reduces every cost connected with insulating from shipping to final installation in your home.



The research and engineering skill Kimberly-Clark has put into Kimsul is most important. Because while all *good* insulation will increase your comfort and cut your fuel bills, Kimsul accomplishes both with substantial *savings* in cost.

These factors
determine
EFFICIENCY

As the simplified table at the right shows, Kimsul has been designed to meet the requirements you, your architect, your contractor, and even the man to whom you may sell your home years hence could ask of insulation.

INSULATION
MATERIAL SHOULD
MEET THESE
REQUIREMENTS

These factors
determine
PERMANENCE

Applicable to Kimsul, this table is equally applicable to all other insulation materials! So, when you study it, ask yourself this question, "What other materials are outstanding not only in Efficiency but in Permanence and Economy as well!"

These factors
determine
COST

2 Snugness REQUIREMENTS

ESE

H

MEETS

S

KIM

I

3 Thickness

1 Stamina

2 Stability

1 Cost of product

2
Cost of
Installation

No waste

4
Shipping and
handling charges

- 1. The measure of the heat stopping power of any material is its "K" factor. Kimsul's rating is .27, which is above the average. Actually a home insulated with one inch of Kimsul is better protected against cold and heat than a castle with masonry walls several feet thick.
- **2.** But mere ability to stop heat isn't enough! Just as the warmest bed clothes won't keep one warm if they are not properly tucked in, so will the best insulation be inefficient if it does not fit snugly. Kimsul is flexible. It can be drawn around corners or tucked behind wires and pipes . . . providing a continuous unbroken blanket of insulation without heat wasting cracks.
- **3.** Obviously a home in Memphis needs less protection from cold than one in Medicine Hat. To combine maximum comfort with economy, Kimsul is made Commercial, Standard and Double Thickness. The proper thickness for any home is available.
- **1.** Kimsul is highly resistant to fire and moisture, and fills the need for a worry-free insulation. Being made of creped plies of wood fibres that will not shred or sift, the material itself is inherently lasting.
- **2.** Insulation must stay where it belongs. If it packs down, or pulls away from joists, rafters or studding, it creates "transoms" through which heat escapes. Kimsul is stitched the length of each blanket with rows of strong twine. It does not sag or settle and its thickness remains uniform.
- 1. Per square foot, Kimsul's cost is low.
- **2.** And: Made in widths to fit snugly between studs and rafters, it eliminates much fitting. Yet, it is quickly and easily cut for spaces of unusual size or shape. Being expandable, it goes up quicker. One man generally can install Kimsul so rapidly that labor costs are lessened.
- **3.** Every bit of Kimsul is usable. Even left over pieces are used for caulking around doors and windows.
- 4. Kimsul is extremely light. Installed, 1,000 square feet weigh but 129.6 pounds. Being shipped and handled in its compressed form, enough for a moderate sized house can be carried in an automobile. So costs of shipping and handling are also reduced.

How much will Kimsul INCREASE COMFORT?

Every time insulation is mentioned, the phrase "Warmer in winter and cooler in summer" crops up. But, naturally, everyone wants to know . . . "by how much?" One also wants to know how much insulation will cost and how much fuel it will save.

All these are questions which can be answered only in connection with a specific home . . . as the answers vary with the size of the home; its location; heating plant; the type of fuel to be burned, and other individual conditions.

To provide a guide which can be used in estimating the effect of insulation, a theoretical home in Chicago (floor plan and perspective of which are shown below) was used as a basis. And while the figures relating to comfort, fuel savings and cost naturally apply only to that particular house, they give quite a definite idea of what you can expect insulation to do for the home you are planning.

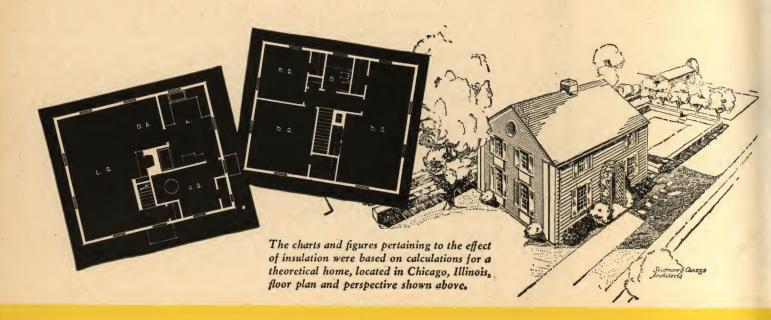
The chart on page 7 shows the effect of insulation on the home pictured below.

Note (under the heading "Maximum Hourly Summer Heat Gain") that if such a house were uninsulated, some 36,345* British Thermal Units of heat would seep in every hour. This means that every 60 minutes enough heat to boil some 20 gallons of water would pass through the walls and roof.

A Standard thick blanket of Kimsul in the walls and upper ceiling (or roof) would shut out 26.4% of that heat.

In winter the increased comfort from Kimsulating is equally important. Note (in the column headed "Total Annual Heating Load") that Standard thick Kimsul in the walls and ceiling would reduce the heat lost by 25.6%.

* A British Thermal Heat Unit is the amount of heat required to raise the temperature of one pound of water one degree Fahrenheit.



How much Fuel will KIMSUL SAVE?

As important as comfort is the fuel saved by insulating with Kimsul!

Again the exact answer depends on the size, location and architecture of your home and on the type of heating plant and fuel used. But by referring to the table below, in which are summarized the fuel savings in the typical home, you can approximate the savings Kimsul offers closely enough for practical purposes.

Note that this home, when not insulated, requires some 209,200,000 Thermal Units of heat to keep it warm . . . an amount roughly equivalent to 14 tons of coal.

By completely insulating this home with Standard Kimsul, the heat requirements can be reduced 25.6% to 155,700,000 Thermal Units or to a fraction over 11 tons of coal. And even by insulating only the top ceiling with Standard Kimsul, the heat required can be cut by 10% . . . a saving of about one and one-half tons of coal.

In this case Kimsul would save, every year, from one to three tons of coal. If more costly fuel were used, the saving of that amount of heat would be even more important.

Saves on the Cost of the Heating Plant also

And this is only one of the savings good insulation makes possible. Insulation not only reduces the amount of fuel needed to keep a home comfortable, but actually makes it possible to keep a home warm with a smaller, less expensive heating plant.

According to Professor Larson (Head of the Mechanical Engineering Department of the University of Wisconsin) who used his own home as an example:

\$51 spent to insulate the top ceiling with ½-inch of good insulation would effect a \$53 savings in the initial cost of the heating plant. And \$142 spent to insulate both walls and ceiling would have saved \$192 in the cost of the heating equipment.

With these facts in mind, you can see that insulating with Kimsul is one building item which should never be regarded as an expense, but rather as an investment whose entire cost is often paid back in immediate savings on the size of the heating plant and is then paid back, over and over again, by yearly savings on fuel.

HEATING LOAD AND SAVINGS "Complete" Insulation (Walls and Top Ceiling or Roof)							
	No Kimsul	COMMERCIAL KIMSUL	STANDARD KIMSUL	DOUBLE THICK			
ANNUAL LOAD*	209,200	169,100 40,100 19.2%	155,700 53,500 25.6%	140,200 69,000 33.0%			
To	p Ceiling or	Roof Insulat	ion Only				
ANNUAL LOAD*	209,200	194,200	188,200	182.200			

*EXPRESSED IN THOUSANDS OF B.T.U.

SUMMER HEAT GAIN AND SAVINGS

"Complete" Insulation (Walls and Top Ceiling or Roof)

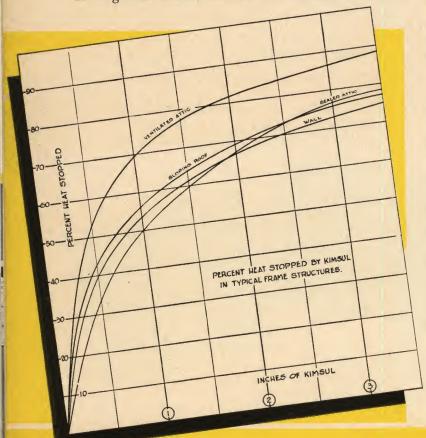
Hourly Gain# Hourly Saving# %Saving	No KimsuL 36,345	COMMERCIAL KIMSUL 28,835 7,510 20.7%	STANDARD KIMSUL 26,732 9,613 26.4%	DOUBLE THICK KIMSUL 24,298 12,047 33.2%		
Top Ceiling or Roof Insulation Only						
HOURLY GAIN# HOURLY SAVING# %SAVING	36,345	31,550 4,795 13.2%	30,340 6,005 16.5%	28,889 7,456 20.5%		
#EXPRESSED IN B.T.U.				1		

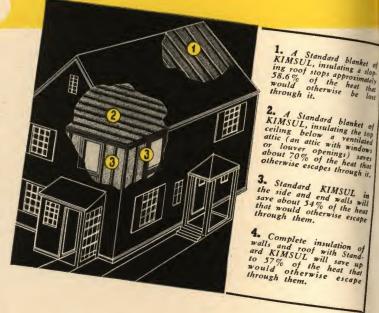
How much, and what thickness of Kimsul do you need?

In the average uninsulated home the heat wasted through walls and ceilings is divided about 60% through the walls and about 40% through the upper ceiling or roof. The diagram below shows how much of this heat can be saved with different thicknesses of Kimsul.

Note that even Commercial thickness stops a lot of heat from escaping . . . the percentage increasing as a greater thickness of insulation is used. However, experience shows that a Standard Kimsul blanket generally provides the greatest comfort and fuel saving at the least cost, thus giving the best return on the insulation investment.

Obviously, if you live in a region subject to severe winters . . . or fuel is high in price . . . it is an advantage, both from the standpoint of economy and comfort, to use a greater thickness. And in this fact lies one of





Kimsul's outstanding advantages.

For once you determine, with the help of your contractor or architect, the thickness of insulation which is best for your home, you can get that thickness in Kimsul.

Partial Insulation is Good— Complete Insulation is Better

While the question of the proper thickness of insulation depends on climate, and the cost of fuel, there is no question about the extra value in completely insulating a home. The time to insulate is when you are building. Once your walls have been finished, it is not only costly but sometimes impossible to get complete insulation which will be permanently satisfactory.

Of course, if your home is already built, you can save up to 70% of that 40% of the heat which is now escaping through your roof by insulating your top ceiling, with Kimsul. But remember, 60% of the total heat lost in an uninsulated home escapes through the side walls. So you can't reap the greatest advantage in Kimsulating unless both walls and roof or upper ceiling are protected.

The best part of it is that when you use Kimsul you can afford to do a complete job. As the typical examples of cost on the next page show, Kimsul is so economical that it is wasteful to skimp on your insulating job.

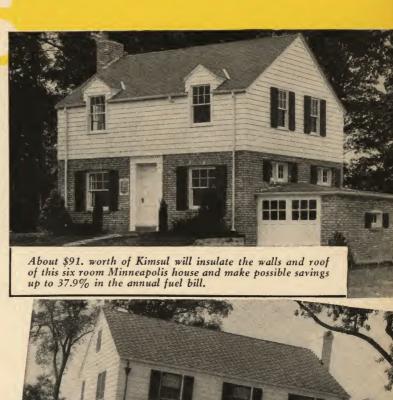
How much does it Cost to INSULATE WITH KIMSUL?

Actually the correct answer to that question might well be "Nothing"! And the same would apply to any other good insulation.

Good insulation, properly installed, will generally pay for itself in a few years through the fuel it saves. And in many new homes the initial cost is saved *immediately* because of the smaller and lower priced heating plant required.

However, the less insulation costs initially, the greater the return on the insulation investment. A few typical homes are shown which indicate the economy of Kimsul. In all likelihood, one of them corresponds closely enough to the home you are planning, to give you a fairly good idea of what it will cost you to Kimsulate. Or, your architect or builder can quickly figure it for you.

A glance at the next two pages, which show how quickly and easily Kimsul can be installed, will demonstrate some of the many reasons why Kimsulating is so inexpensive.





Here's How KIMSUL Reduces Installation Costs



Usually one man can do the job . . . easily and quickly. No special tools or experience are required. And Kimsul is so light, flexible and clean, that men enjoy working with it.

Goes up in a "Jiffy"

Using the shipping carton as a dispensing container, the end of a Kimsul blanket is first expanded for about 6 inches and fastened to the under side of top plate between studs with a piece of lath and a couple of nails. Then the blanket is grasped with both hands and expanded some $5\frac{1}{2}$ times its compressed length.

The strong twine stitching is then taut and supports the blanket in place. Finally Kimsul is attached to the upper side of the floor or bottom plate and cut off with a hatchet, knife or scissors. That's all there is to it.

It's There to Stay!

Installed this way you'll never need to think about the permanence of your Kimsul installation. It resists fire and moisture and, most important perhaps to you, it stays where it belongs.

For Kimsul with its many individual plies, creped to give a multitude of air spaces, and strongly stitched together, does not overstretch, sag or settle.

Sloping Roofs Are Easy To Kimsulate

The Kimsul blanket should first be expanded the needed length and cut off. Then, starting from the bottom, it is fastened to the rafter plate, then to the ridge board with lath and nails. Laths tacked across framing members (see photo) provide temporary support for blanket until ends are fastened in place.

Then to make a snug, tight fitting job, lengths of lath are nailed along the edges of the Kimsul blanket, into the rafters . . . or by using a blanket slightly wider than the rafter spacing, Kimsul can be made to provide its own rafter tacking strip. These methods, by providing air space between the Kimsul blanket and the roof, considerably increase the heat stopping power of the roof as a whole.

On Attic Floors

Exposed attic floors are easiest of all to Kimsulate. A single length of blanket expanded until stitch lines are taut, and fastened at plates, will completely cover entire areas between joists.

No Waste

Pieces left over from insulating other spaces, crammed into small spaces around doors and windows (see photo lower right) effectually insulate such areas against infiltration losses.

Condensation Control

Wherever the difference between outdoor and inside temperatures is great enough to cause condensation, the final step in insulating . . . regardless of the insulation used . . . should be the installation of a vapor seal.

Condensation may take place in walls in localities subject to low outside temperatures—especially when the inside relative humidity is carried above 30%. When this condition exists it is recommended that a vapor seal paper be installed on the inside face of framing members after KIMSUL is in place. When application is made in this manner, with the vapor seal separate from the insulation, the job of insulating and vapor sealing is more quickly and easily done, all surfaces are completely and uniformly insulated and a continuous, unbroken vapor seal is obtained.





Who Makes Kimsul?

Kimsul was developed and is manufactured by the Kimberly-Clark Corporation . . . of international importance for 67 years in the manufacture of wood fibre products. Every stage in its manufacture is under the watchful scrutiny of skilled men of experience. Hence, the Kimsul installed in your home can be expected to be of uniform quality fully up to the rigid manufacturing requirements set by Kimberly-Clark.

Where to Buy Kimsul

Leading Building Material and Lumber Dealers carry Kimsul in stock, or can secure it for you from conveniently located distributors. It is sold only through recognized dealers.

Ask Your Architect or Contractor

Architects, Contractors and Builders know the value of good insulation . . . what it can add to your comfort, winter and summer . . . and how effectively it can decrease your fuel bills.

We suggest you consult them not only in regard to insulation, but in connection with every investment or improvement you wish to make in a home.

KIMBERLY-CLARK CORPORATION, Manufacturers

ESTABLISHED 1872

(Kimsul Division)

8 SOUTH MICHIGAN AVENUE, CHICAGO

... for Greater Comfort Winter & Summer



Beauty in the Room begins at the WINDOW

START WITH VENETIAN BLINDS DRAPERY HARDWARE

CUT-TO-FIT RODS ☆ CORNICES ☆ WOOD POLES ☆ ACCESSORIES







* * * Seautify your home
with KIRSCH VENETIAN BLINDS * SUNAIRE
FLEXIBLE STEEL * FLEXOLITE FLEXIBLE
STEEL OR WOOD SLAT VENETIAN BLINDS

sunaire flexible steel slat venetian blinds are trouble-free . . . easier to keep clean than a porcelain table top . . . cannot possibly warp, sag or rust . . . and will virtually last a lifetime. The Kirsch Sunaire is the first blind to control light and ventilation scientifically and positively. It is made of wafer-thin light weight flexible "S" shaped steel slats. The Kirsch Sunaire gives actually 25% more light when open . . . 77% more when the slats are at a 45° angle. This is due to the advanced scientifically curved slat construction. Sunaire blinds come in 15 standard slat colors and 20 standard tape colors . . . and are custom-made for your windows.

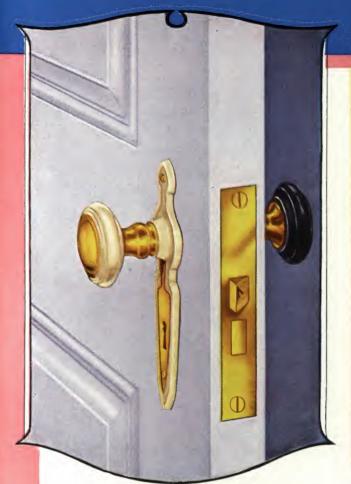
idea in flexible slat blinds. The steel slats in the Flexolite are curved in concave design presenting many lighting and ventilation features that are not found in the usual flat slat construction. This blind will give excellent service for a lifetime . . . yet the price is low enough to enable many more home owners to enjoy the advantages of modern, flexible steel slat blinds.

distinctive advantages over others of this type. The operating mechanism is concealed in the Kirsch one-piece, rust proof metal head member . . . no protruding operating parts visible . . . trim, neat and attractive. A worm gear tilting device tilts the slats to any angle, noiselessly and smoothly. An automatic cord stop holds the blind at any position without a cord holder. The slats are made of the finest quality wood . . . kiln dried to prevent warping. The durable lacquer finish won't crack, peel or dull. Custom-made to your measurements, Kirsch wood slat Venetian blinds come in 17 standard slat colors and 20 standard tape colors.

Kirsch Company sturgis, Michigan, U. S. A.

Hardware of Distinctive Charm and Color

byLOCKWOOD



NEVER knew the hardware for my new home could be so thoroughly charming." That is what many home builders are saying today when they see the new Lockwood developments in hardware for residences. *Different* in a way that is pleasantly refreshing. *Smart*, yet with sufficient restraint for dignity and permanence. And *economical* - - Lockwood's "new era" hardware costs no more. In fact, because of ingenious mechanical design and economical production methods, it frequently means important savings.

Patrician — Plastelle

Two words which have revolutionized hardware design. Lockwood Patrician knobs are a combination of metal and plastic, designed so that the plastic rim is quickly and easily interchangeable. Plastelle is an exquisitely designed metal and plastic escutcheon plate. Patrician knobs can be used in combination with Plastelle escutcheons, as shown, or together with small metal roses, as illustrated on another page.

That Important Touch Of Color

Patrician and Plastelle enable you to harmonize the hardware with color schemes in kitchen, bath, bedroom, game room, and other rooms where bright colors are prevalent. For other portions of the home the delicate ivory tint or deep, lustrous black blend well with any decorative treatment.

Available in Ivory, Black and these five beautiful pastels



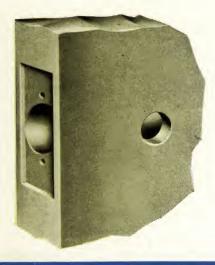
Mighty Important Too - - -

It is no trouble at all to keep Patrician — Plastelle bright and new looking. An occasional wiping with a damp cloth removes dirt accumulations. The knob rims, which receive practically all the wear, cannot tarnish. Furthermore, these plastic rims eliminate the occasional "static shock", an irritating annoyance, at times, in the home.

Bor-loc Latches

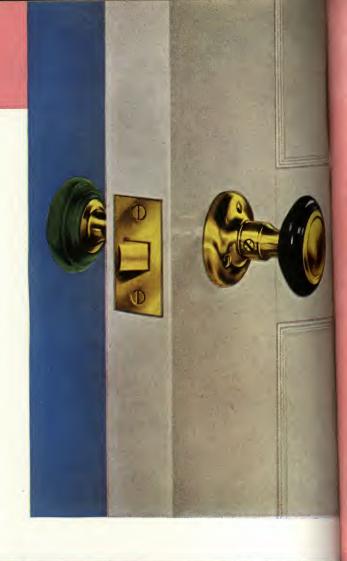
PROGRESSIVE development in Lockwood hardware has kept pace with the changing requirements of modern home builders. Most are anxious to effect economies, but reluctant to sacrifice beauty or serviceability. Lockwood's newly developed Bor-Loc is one of those happily conceived devices, which by its ingenious design and superior materials gives smoother performance, neater appearance, longer life and at the same time effects important savings by its simpler method of installation.

Bor-Loc is made in two types; a latch for interior doors not requiring a locking feature and a lock for doors such as bathroom and bedroom doors which require locking from the inside.



Easy to Install

The Lockwood Bor-Loc is the simplest and least expensive of all mortise locks to install. It requires only two bored holes, as shown, and a shallow recess to receive the face plate. It is easy to see the saving in time required to install these devices, as compared with the usual type lock, shown below.





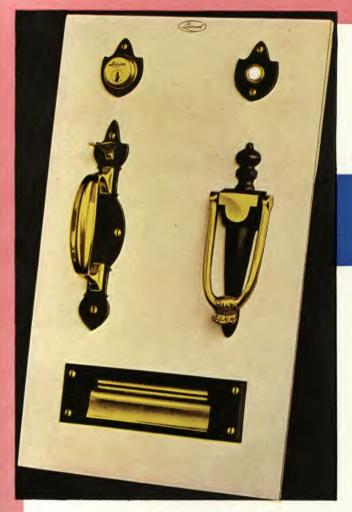
Unifast. for permanent fastening

Perhaps one of the most attractive of all types of hardware trim for homes is the "sectional" type, or separate knob rose and key plate. This trim is usually used on the finest of residences. It is not practical however for use with the ordinary mortise lock on most modern residences today, because the thin doors do not have sufficient wood left to retain the screws firmly after they have been mortised to receive the lock.

Lockwood's Unifast escutcheon plate was developed to make possible the graceful, pleasing effect of sectional trim in a way that would be practical for application to modern, thin doors. The rose and keyhole plate are joined together by a slender band, in the center of which is the attaching screw. This screw extends through the wood and fastens into the lock case, holding it permanently in place. Constantly loosening screws and rattling hardware are eliminated.

Unifast escutcheon plates can be used in combination with Patrician knobs as shown, or with metal or glass knobs.

Lockwood Front Door Sets



In selecting the hardware for your front entrance door, good taste requires that some consideration be given the suitability of the hardware design to the external architectural style of the home. While it would be easy to overemphasize the necessity for selecting just the right design for each individual home, Newtown and Osterville designs, shown on this page are both

Newtown Design

eminently suited for use on the great majority of houses that are being built today in the Traditional American or Colonial styles. Newtown Design has definite Colonial grace and charm. The base plate of the handle is a silhouette of familiar Colonial contour. The handle grip is delicately modeled and gracefully proportioned. The attractive door knocker, electric push button and letter drop plate are essential equipment for the modern version of the Traditional American door way. In the combination of polished brass and black finish shown, this trim presents an unusually distinctive appearance.

Osterville Design

Osterville is a fine reproduction of a typically simple but characteristically attractive Traditional American entrance handle. It can be appropriately used, in most cases, in polished brass as shown, or in a "black iron" finish. Too, Osterville handles are made in a smaller size for use on interior doors, so that the same design treatment can be used consistently throughout the home. (See Cape Cod Sets, on next page.)

In addition to Newtown and Osterville, Lockwood makes a wide range of other designs, appropriate for use with Traditional American, Medieval (English, French, Spanish) and Modern architecture. Home builders are invited to inspect these designs in the display rooms of Lockwood dealers, or to write us direct for illustrations and descriptions.





Cape Cod

TRADITIONAL "THUMBLATCHES"

WITH MODERN LOCKS

Many home builders are aware of the possibilities for adding interest, distinction and authenticity to homes built in the traditional styles with thumb latches instead of knobs. Yet, high cost or a dislike of the impractical, old fashioned latch bar, with which these were heretofore equipped, has prevented their wide use.

Recently, Lockwood has developed a lock of standard size and function which can be operated by these attractive thumb latches instead of by the usual knob. These lock sets, complete with two thumb latches, can now be had at little or no addition to the cost of an ordinary lock set.



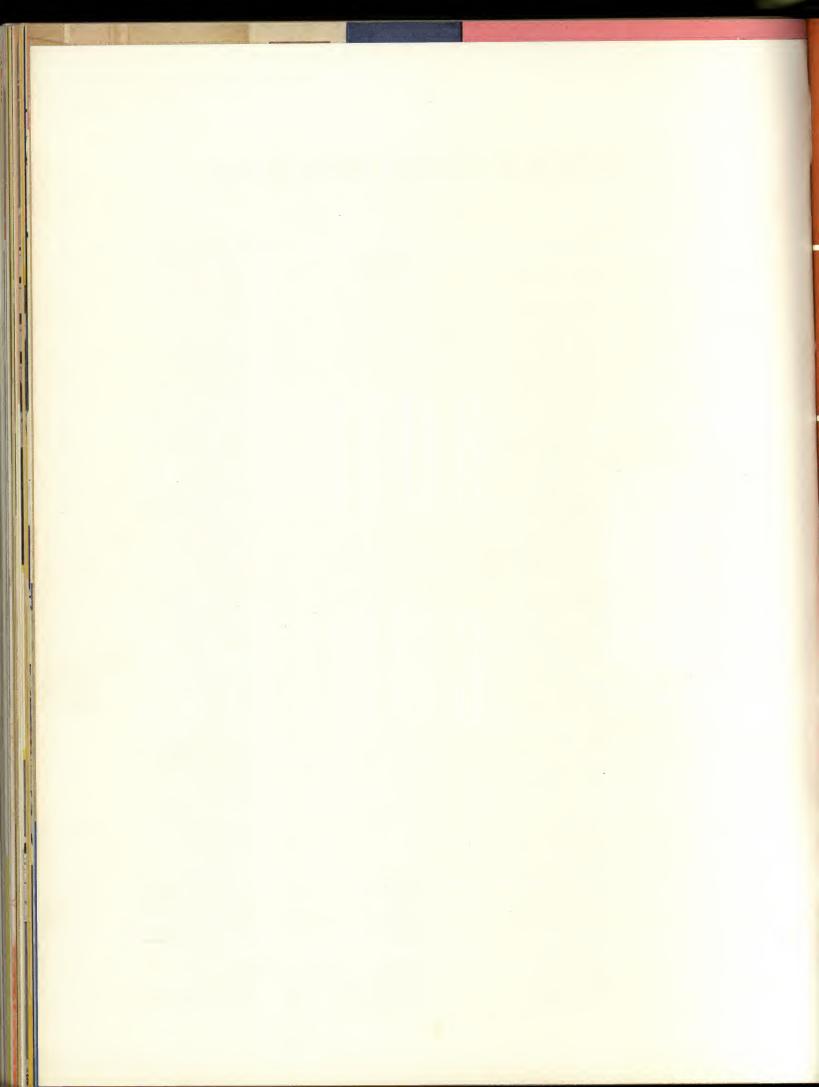
LOCKWOOD HARDWARE MFG. CO.

Division of Independent Lock Co.

FITCHBURG, MASSACHUSETTS

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MINNEAPOLIS - HONEYWELL



For Heating, Ventilating and Air Conditioning

SO YOU'RE GOING TO BUILD A HOUSE



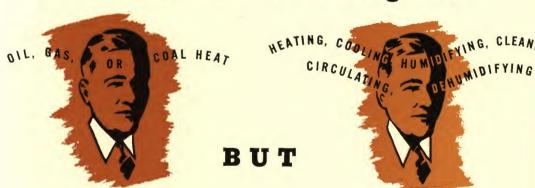
Of course you are planning to install Automatic Heating and Air Conditioning in some form or other in your new home, but have you given Automatic Controls the consideration they deserve?

- On the following pages are described the functions of Automatic Controls as applied to various types of Automatic Heating and Air Conditioning equipment. It has been truthfully said that "it is the Automatic Controls that make automatic heating automatic." And it is also true that no automatic installation, whether it be fired by oil, gas or coal, can perform better than the controls which govern its operation. After all, when you buy automatic heating, you are primarily interested in comfort and economy of operation. It's your automatic controls that hold the temperature and humidity in your home where you want it, and it is the controls that keep your burner operating with maximum efficiency.
- Minneapolis-Honeywell has nothing to sell directly to you, although it is the oldest and largest manufacturer

of control equipment in the world. Minneapolis-Honeywell controls are sold to manufacturers and dealers, and are installed with your Automatic Heating and Air Conditioning equipment.

• Consequently, we urge you to give proper consideration to the controls that will be furnished with the burner you select. . . . Insist upon M-H controls. They are standard on most burners, and can be had for all types of automatic heating, ventilating and air conditioning installations.

Install Automatic Heating and Air Conditioning



don't overlook the controls that make it automatic

H O N E Y W E L L



M-H BASIC CONTROLS

MINNEAPOLIS - HONEYWELL

A MINIMUM OF AUTOMATIC CONTROL IS OFTEN ALL THAT IS SUPPLIED WITH THE BURNER...

• Automatic heating can be accomplished only if the burner, regardless of the type of fuel used, is equipped with automatic controls. These controls should consist of a thermostat to stabilize room temperature, a limit control to restrict the temperature of the furnace or boiler at a given point, a primary control to operate the burner in the case of oil or coal firing, and a valve in the case of gas heating. Such controls, of course, are necessary for the operation of your burner and are required by most local ordinances. They represent the minimum equipment with which Automatic Heating can be properly installed.

Even if this minimum equipment is all that you require, insist upon Minneapolis-Honeywell Controls, for they insure the best performance from your system and make sure that proper controls will be available for future equipment if you make additions or changes later. Minneapolis-Honeywell Automatic Controls are accepted as standard by the majority of manufacturers, and are available for all types of oil, gas, or coal burners, as well as kindred equipment. The Minneapolis-Honeywell line is complete in itself.

In order to make list prices of Automatic Heating units attractive, most dealers supply only standard equipment, which includes a plain type thermostat such as the Acratherm. There are, however, several additional or optional controls you should know about. You probably will want more than the very minimum of controls, especially in view of the fact that complete automatic control will give much more comfort, convenience and economy, and will actually cost but little more.



THE NEW CHRONOTHERM

MINNEAPOLIS - HONEYWELL

EVERY AUTOMATIC HEATING PLANT MUST HAVE A ROOM THERMOSTAT, BUT...

- Only the M-H Thermostats will give you the perfection of temperature control you should have. These thermostats will probably cost you little, if any, more than a conventional type, yet they have many distinct and revolutionary advantages. Because the greater majority of burners are supplied with M-H Controls, the chances are your dealer will figure the plain type M-H "heat accelerated" thermostat in his original price. If some other plain type thermostat is substituted, the following facts will show you why it is wise to insist upon one of the Minneapolis-Honeywell Thermostats employing the principle of "heat acceleration."
- M-H Thermostats do what other thermostats strive to do; namely to provide stabilized heat. By means of the "accelerator", M-H Thermostats actually sense temperature changes before they are noticeable and speed up the heating system to meet them. They literally iron out temperature fluctuations in any modern heating system by automatically adjusting the length and number of burner operations to supply heat in response to the changes in outside weather. Short frequent burner operations in cold weather, and less frequent operations in mild weather, produce stabilized heat. No thermostat without the M-H principle of "Heat Acceleration" can do this.

THE NEW "CHRONOTHERM"

● The new M-H Chronotherm is the finest thermostat in the Minneapolis-Honeywell line, and actually is the ace of all thermostats. In addition to providing Stabilized Heat, it is equipped with an accurate and dependable, self-starting, electric clock, of the latest design. It automatically lowers temperature at night and raises the temperature in the morning at any given time before you arise. The Chronotherm is completely automatic. Its added cost is more than compensated for, by the comfort and economy it provides. In fact, you can't afford to be without the Chronotherm in your home.



THE PLAIN ACRATHERM and THE DA-NITE ACRATHERM

MINNEAPOLIS - HONEYWELL

LOWERED NIGHT TEMPERATURE SAVES FUEL, YET ADDS COMFORT

• It is an established fact that reducing temperature at night and during periods when heat is not needed, can save you from 10 to 30% in fuel costs. To make this lowering of temperature practical, Minneapolis-Honeywell originated and pioneered "Clock Control". It has been proved through exhaustive tests that fuel is saved at the rate of 3.2% per degree of lowered temperature . . . in other words — if your temperature control point is lowered 10° during the night or when temperature at the higher point is not needed, 32% of the fuel normally consumed during those hours will be saved. Lowered night temperature can be automatically accomplished for a small additional first cost, but it is well worth the investment. The new M-H Chronotherm or the Da-Nite Acratherm provides "stabilized heat" as does the plain type Acratherm, but offers the additional advantages of lowered night temperature.

THE "DA-NITE ACRATHERM"

● The Da-Nite Acratherm provides the same exclusive control qualities as the plain Acratherm and the Chronotherm, but requires manual attention to provide night temperature shut-down. It is a less expensive way to accomplish lowered night temperature. At night when you retire or at any time when heat is not needed — if you are away for the day — a twist of the fingers reduces the temperature to a fuel saving level for the length of time you designate. When this period has elapsed, the Da-Nite Acratherm automatically restores the comfortable temperature you desire. This means that your home is always comfortable in the morning when you arise, yet you have saved fuel at the rate of 3.2% for every degree you have lowered the temperature.

THE "ACRATHERM"

• The Acratherm is a new type of thermostat recently developed by M-H engineers, and is the Minneapolis-Honeywell version of a plain type thermostat. The Acratherm eliminates the condition known to heating engineers as "Cold 70" which is due to air stratification as a result of intermittent firing, because it provides short frequent burner operations which keeps the air within the room circulating and temperatures even at all times. When you install Automatic Heating insist that it is at least Acratherm controlled, as the Acratherm is probably Minneapolis-Honeywell's greatest single contribution to the automatic heating industry.

MINNEAPOLIS

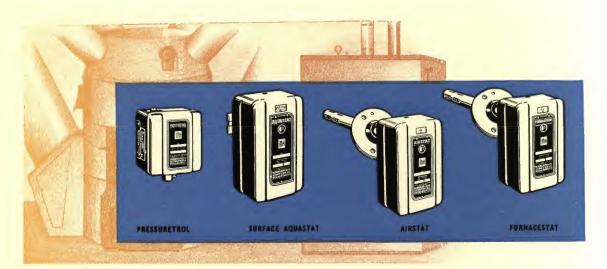
LIMIT CONTROLS SAFEGUARD YOUR HEATING PLANT

• Limit controls safeguard the furnace or boiler against excessive temperatures or pressures. It is not uncommon for doors or windows to be left open, causing the thermostat to continually call for heat with the result that the heating plant itself becomes overheated. Limit controls are required by law in a great many localities and their cost is almost negligible. Insist upon M-H Limit Controls, for your own protection.

The Airstat, for warm air systems, automatically shuts off the burner in the event the temperature of the furnace becomes too high. The Aquastat performs the same function for hot water systems, while the Pressuretrol and Vaporstat provide this protection for vapor and steam systems.

WARM AIR BLOWER SYSTEMS REQUIRE AUTOMATIC CONTROL

• The blower or booster fan increases circulation and also speeds up the delivery of heat in warm air heating plants. Minneapolis-Honeywell Automatic Controls operate the blower or fan in any sequence desired. During summer months the blower can be used to circulate air through the basement, providing a cooling effect. Used at night, the fan or blower empties the house of warm air and draws in cool fresh air from the outside. All of this can be accomplished automatically by the installation of Minneapolis-Honeywell Controls. Ask your heating contractor about these added features.



DEPENDABLE CONTROLS COST LESS THAN SERVICE

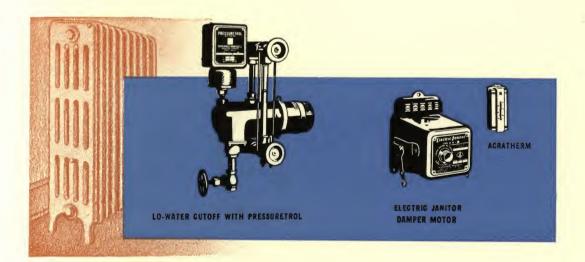
H O N E Y W E L L

LOW-WATER CUTOFF SAFEGUARDS YOUR STEAM OR VAPOR SYSTEM

● Considerable damage can result to a steam or vapor system in the event the water level in the boiler becomes too low, either through neglect or because of an unnoticed leak. The M-H Low-Water Cutoff automatically turns off the burner which remains off until a safe water level in the boiler is restored. No steam or vapor heated home should be without this protection, for lack of it may involve damage to property, or injury to the occupants. An M-H Low-Water Cutoff can easily be added to any installation at a very nominal cost.

HAND FIRED HEATING PLANTS REQUIRE AUTOMATIC CONTROL

• The simplest form of control is the automatic damper regulator for a manually fired heating plant. The M-H Electric Janitor consists of a room thermostat and an electric motor which opens and closes the furnace or boiler drafts in accordance with the room temperature requirements. A limit control should always be used. This not only provides healthful and comfortable temperatures but eliminates fuel waste due to overheating, which often occurs when the heating plant is manually regulated.



DEPENDABLE CONTROLS COST LESS THAN SERVICE

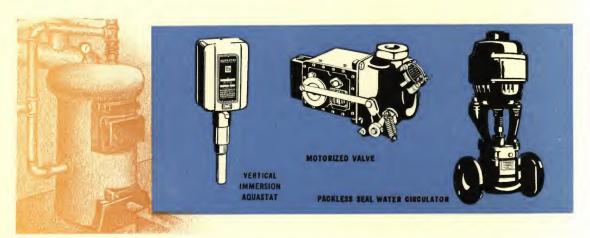
MINNEAPOLIS

FORCED HOT WATER CIRCULATION PROVIDES QUICK, EVEN HEAT

• Forced circulation of hot water in hot water systems is the modern and efficient way to insure quick, even heat. Without proper circulation, remote radiators naturally do not deliver heat as quickly as those nearer the heating system. The M-H electrically operated Water Circulator quickly forces hot water throughout the system and provides even distribution of heat to all parts of the home. Because circulation is much more rapid with the circulator than with natural or gravity circulation, the temperature of the boiler water may be maintained at a lower level. This saving, as well as the saving on your heating installation, due to the use of smaller size piping throughout, should more than pay for the cost of the precision built M-H Packless Seal Circulator, which is leak-proof and extremely quiet.

DOMESTIC HOT WATER FROM YOUR AUTOMATIC BURNER

● The Automatic Burner used to heat your home can also furnish a plentiful supply of low cost hot water during the summer as well as winter. When heat is not needed to maintain comfortable temperatures throughout the house, the radiator lines are automatically shut off and heat is transmitted to an indirect water heater. In a steam system, only an indirect water heater and a low limit control (Aquastat) are required. With a hot water heating system, the indirect heater is used, as well as the low limit Aquastat — and in addition a water circulator, discussed above, and flow valves are used to prevent heat travel to the rooms during the summer.

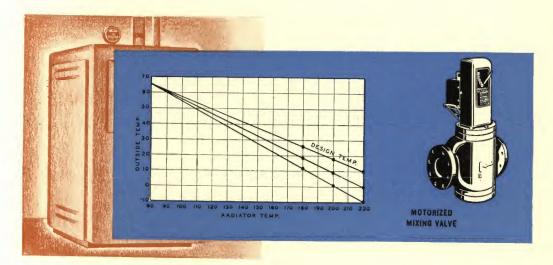


DEPENDABLE CONTROLS COST LESS THAN SERVICE

H O N E Y W E L L

AUTOMATIC MODULATION GIVES TEMPERED HOT WATER HEAT

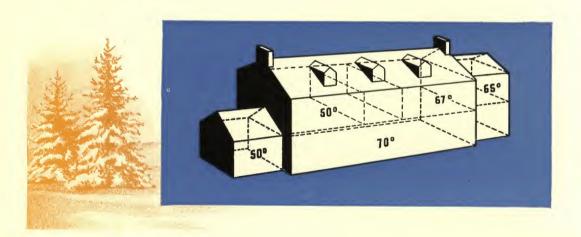
- The home owner who is looking for perfect comfort and satisfaction from a hot water heating plant will install the M-H Tempered Water Control System. This offers the ultimate in control for hot water heating. Nearly all conventional control systems for hot water heating plants provide on-off operation with fluctuating radiator temperatures. The M-H Tempered Control System eliminates this condition by the co-ordination of a modulating thermostat and a motorized mixing valve which constantly maintain the temperature of the radiators at the desired level. This is accomplished by diverting varying amounts of the cool return water around the boiler and mixing it with hot boiler water in proportions depending upon the heating requirements. Radiator temperatures are thus automatically adjusted for changing heating requirements and a constant radiator temperature for any given condition results. A powerful M-H Packless Seal Circulator assures positive circulation to every radiator and is a part of the complete system.
- Based upon different heating plant "design temperatures" (maximum demand conditions) the chart below indicates required radiator temperature to meet various outside weather conditions.



ZONE CONTROL PROVIDES GREATER COMFORT AND ECONOMY

• If you are building a large home, with servant quarters, guest rooms, garage, and other sections which do not constantly require the same temperature as the living quarters, or a home in which certain sections are differently affected by their exposure to the sun and wind, consideration of automatic control of the individual zones is highly important. The living rooms of your home should be kept at 70 or 72 degrees, while the temperature in the garage need not be more than just above freezing. Servants' quarters and guest rooms should be kept cool during the hours when they are not being used.

The effects of the sun and wind also must be taken into consideration. Rooms most exposed to wind must be supplied with more heat, while rooms which receive the benefit of solar radiation should be given less heat if uniform temperatures are to be maintained. To accomplish such results, the heating system should be divided into sections and controlled under a system known as Zone Control, which takes all heating factors into account and distributes heat accordingly. The economies that are effected will more than pay the cost of a Zone Control System, in a comparatively short time.



MINNEAPOLIS - HONEYWELL

AIR CONDITIONING IS NOT NEW

Early device to ventilate a room by a mechanically operated fan . . . Engraving after Boeckler, 1659



MINNEAPOLIS

TRUE AIR CONDITIONING INCLUDES SIX DEFINITE FUNCTIONS

- There are six functioning factors of an Air Conditioning system, namely: Heating, Cooling, Humidifying, Dehumidifying, Circulating and Cleaning.
- 1 Year 'round functions consist of circulating and cleaning the air.
- 2 Winter functions include heating and humidifying.
- 3 Summer functions are cooling and dehumidifying.

AUTOMATIC CONTROL

• Whether you install only Automatic Heating or add to it one or more of the other functions of Air Conditioning, the importance of the Automatic Controls cannot be too strongly emphasized. With adequate Automatic Control, the system, large or small, can be a comfort and joy; without adequate Automatic Control the system will likely be an annoyance and worry.

In general, Automatic Control in an Air Conditioning system does the following:

- 1 ELIMINATES HUMAN ERROR: Automatic Control provides adequate, accurate, and dependable regulation of the several factors and the various mechanical units which produce Air Conditioning. Controls will react to temperature and humidity changes long before the human body is aware of a change.
- 2 REDUCES COST OF OPERATION: When Air Conditioning is Automatically Controlled there is no waste of fuel or power. Overheating in winter and under-cooling in summer are avoided.
- 3 PROVIDES SAFETY: The steam or water pressure in a heating boiler, or the temperature of a warm air furnace must be controlled to safeguard the heating plant. The amount of moisture in the air must be governed to prevent damage. Dependable safeguard can be provided only by automatic safety controls which are a part of every Minneapolis-Honeywell Control System.

There is a Minneapolis-Honeywell Automatic Control for every Air Conditioning function, and for every type of equipment selected. Automatic Control is just as important as the Air Conditioning equipment itself, for without control, a system cannot function as efficiently, as economically, or as conveniently as it should.

HONEYWELL

PLAN AIR CONDITIONING STEP BY STEP

• In all homes there are often several ways of accomplishing the same final results from Air Conditioning. But whether you plan to make the complete installation when you build or to provide Air Conditioning step by step, it is necessary that definite plans be made at the outset. Too much stress therefore cannot be placed on the value of employing a competent Architect or Engineer who can properly plan your entire system. Provision must be made for ducts to circulate conditioned air; the plant itself must be properly located, and many other elements must be taken into consideration that require the services of an Architect or Engineer.

The selection of the proper basic control system is likewise of utmost importance. It is necessary that the control system be such, that whether it is installed at one time, or step by step, it shall be completely coordinated and will function as a unit. Minneapolis-Honeywell is the only manufacturer offering a complete line—the right control for every application. When you start with Minneapolis-Honeywell Controls you have complete assurance that other necessary controls can be added from time to time, so that as you install additional Air Conditioning equipment, the entire control system will work together in perfect harmony.

The construction of your home will play an important part in the operating cost of an Air Conditioning System. Insulation, doors and windows, shades and awnings will make a tremendous difference in the cost of both winter and summer conditioning.

OPTIONAL AIR CONDITIONING EQUIPMENT

• When artificial cooling is not possible or not deemed necessary, considerable benefit can be derived through use of an attic fan. In the evening when outside temperatures fall, the attic fan expels the warm air from the house and fresh, cool air is drawn in through doors or windows left open on the ground floor.

This naturally has a distinct cooling effect, as it not only causes circulation but supplants warm air with the cooler outside air.

Automatic Control can operate an attic fan in several different ways. An M-H Time-O-Stat can automatically start the fan at a given hour and turn it off at any given time, or it can start the fan only when the temperature is above a given point in the home.





CHRONOTHERM-The world's finest thermostat. It is fully automatic, has a self-starting electric numeral clock movement and offers all theadvantagesoflowered night temperature without manual attention throughout the entire heating season. Stabilized Heat is assured through the exclusive M-H principle of "Heat Acceleration".



DA-NITE ACRATHERM -This thermostat, like the Chronotherm, provides lowered night temperature but requires a manual setback each night before you retire. Day time temperature is then automatically restored at any time you desire. Stabilized Heat is maintained through its "accelerator"... an exclusive M-H feature.



THE ACRATHERM-This is the M-H plain type thermostat. It has "Heat Acceleration" and will definitely maintain stabilized temperature throughout your home, regardless of outside weather conditions. If you do not decide to have the Chronotherm or the Da-Nite Acratherm, insist upon having the M-H Acratherm.



PROTECTORELAY-This is the recommended operating control for your automatic oil burner. It is actuated by the M-H room thermo-stat you select. M-H Protectorelays provide automatic shut down in the

event of combustion failure, and provide a means

for automatic recycling.



GAS VALVE-This is he silent motorized M-H automatic gas valve for your automatic gas burner. Like the Protectorelay for the oil burner, this motorized gas er, this motorized gas valve takes its control from the M-H "heat ac-celerated" room thermo-stat which you specify. Solenoid Gas Valves are also available.



TIMERELAY—Automatic coal burners are operated by either the M-H Timerelay or Stokerswitch which maintains the fire in mild weather and controls your burner with a maximum of economy. These instruments are con-trolled by the M-H room thermostat you select.



AIRSTAT - A safety or limit control which protects your furnace from over-heating, by automatically shutting off your burner before the bonnet or stack temperature in your warm air heating plant becomes excessive, thereby offering complete safety of operation.



H

AQUASTAT - Should a window or door be left open, your thermostat may call for heat continually. Under these conditions an overheated boiler will undoubtedly result. The Aquastat measures boiler temperature and provides automatic shut down whenever safe limits are exceeded.



PRESSURETROL-This safety or limit control is a necessary part o every steam, vapor or vacuum automatic heating system. It may be used by itself to provide protection against high pressure or may be used in combination with the M-H Lo-Water Cutoff for Duplex switch operation.

CONTROL REQUIREMENTS FOR AIR CONDITIONING SYSTEMS INCLUDE



HUMIDITY CONTROL - This instrument has a

human hair, hygroscopic element which wil control, between predeter-mined limits, the rela-tive humidity in your home. The importance of proper humidity cannot be overestimated and can be had only through automatic control.



WATER VALVE - These solenoid valves take their control from the Humidity Controller and are especially designed for domestic application. They are extremely silent - sturdily built - and are so constructed that the seat and plunger may be easily removed for cleaning.



MODUTROL MOTOR -The Modutrol Motor is used to automatically

operate valves or dampers which in turn control the flow of steam, water, or air. These motors are built in severa types, both the two-posi-tion "on" and "off" type and the full modulating or proportioning type.

AUXILIARY AUTOMATIC CONTROLS YOU SHOULD CONSIDER



LO-WATER CUTOFF -This safety control con-stantly watches the water level in your boiler and shuts off your auto-matic burner whenever the water level becomes too low for safety. Com-bined with the Pressuretrol, as illustrated, it is known as an M-H Duplex Switch.



WATER CIRCULATOR

The M-H Packless Seal Circulator should be considered for all hot water heating plants. It makes possible smaller size piping throughout your home and will actually reduce fuel costs. This Circulator is precision built and scientifically lubricated.



FLOW VALVE-Flow Valves are used in con-junction with the M-H Packless Seal Circulator to provide a completely automatic summer-winter domestic hot water system. Without the circulator, M-H Motorized Flow Valves and a low limit control provide the same function.

DAMPER CONTROLS FOR HAND FIRED, COAL BURNING HEATING PLANTS



DAMPER MOTOR-This is the small but efficient, electrically operated. damper motor supplied with the Electric Janitor Control Packages. It takes its Control from your room thermostat, which may be either the Chronotherm, Da-Nite Acratherm or the plain type Acratherm.

ELECTRIC JANITOR CONTROLS - For the hand-fired heating plant, automatic controls offer economy of operation as well as convenience. These controls are supplied in complete package outfits including the sturdy, fully electric, damper motor (illustrated) together with transformer and all necessary fittings. The room thermostat supplied may be either the Chronotherm (A), Da-Nite Acratherm (B) or the plain type Acratherm (C), all illustrated above. Don't be without Electric Janitor Automatic Controls even though you do not install an automatic burner. Automatic Controls are indispensable in any home, regardless of the type of heating equipment selected.

MINNEAPOLIS - HONEYWELL

WHY MINNEAPOLIS-HONEYWELL

● Minneapolis-Honeywell is the oldest and largest manufacturer of automatic control equipment in the world. It has pioneered and developed every important contribution to this vast industry. Its products are backed by more than fifty years of actual field experience together with constant research and practical laboratory tests. Only Minneapolis-Honeywell can supply a complete Control System to meet every known requirement, be it a small or large home, a simple automatic heating job or a complete year 'round air conditioning installation. Branch offices are maintained in seventy principal cities to assure prompt service at all times. When you install Minneapolis-Honeywell Controls, you have definite assurance that your heating or air conditioning system will function at its best, both as regards performance and economical operation. Your heating or air conditioning Engineer and your Architect will heartily recommend and endorse Minneapolis-Honeywell Controls.







Minneapolis Plant where executive offices are located. Additional plants in Philadelphia, Pa., Chicago, Ill. and Wabash, Ind.

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• Stocks of all the Minneapolis-Honeywell controls are constantly carried at our branch offices and distributors in order that we may most quickly fill your needs. A telephone call will bring prompt delivery.

★Indicates Factory Branches.

Due to highly specialized requirements for Brown Instruments, they cannot be carried in branch stocks. However, your orders, placed with these offices, will be promptly filled and shipped from the Brown plant.



DESERVES THE
FINEST PLUMBING SYSTEM
AVAILABLE

STREAMLINE

.. and that means

STREAMLINE

TRADE MARK REG. U. S. PAT. OFFICE

PIPE AND FITTINGS

PIPE AND FITTINGS DIVISION
MUELLER BRASS CO.
PORT HURON, MICHIGAN

COPPER Everlasting Metal of the Ages

Copper is one of the oldest metals known to man. Throughout history it has been employed in innumerable ways to serve his purposes not only as weapons, ornaments and household utensils, but also as a building material.

Wherever we find authentic records of early civilization, we find that copper has always been preferred where metal of an enduring quality was necessary. There is still in existence copper that was used in ancient Egypt for conveying water 5400 years ago. In spite of the passing of nearly 60 centuries, this pipe remains in good condition and could still be used for the purpose it was originally intended to serve.

Copper arrow heads are dug from the earth, in a good state of preservation after centuries have rolled by.

Copper keels and bolts from stranded ships, subjected to the action of briny sea water for years, are salvaged in a perfect state of preservation.

During recent excavations in Pompeii which was covered with lava and ashes in the year 70 A. D. by an eruption of Vesuvius, copper pipe was unearthed, which was in such good condition that it could still be used today, after eighteen centuries have passed.

Until a few years ago copper pipe for plumbing purposes was comparatively rare in America, but thick walled copper pipe had been in use in the British Isles and Europe for about a hundred years.

Until a few years ago the method of joining lengths of this thick wall copper pipe was by threading them so that they could be screwed into the connecting fitting. Threading pipe reduces its thickness at the point where the connection is to be made. Consequently, the pipe has to be thicker than required in actual service so that it can be threaded and still leave enough wall thickness for conducting purposes. A foot of thick wall copper pipe weighs more than a foot of light wall pipe; consequently, its cost is greater per foot in proportion. This, of course, made the copper pipe so expensive that it was out of reach of the home builder of ordinary means.

The problem to solve was to develop a different method of joining the pipe so that its excess thickness could be eliminated.

With these facts in mind and after several years of experimentation, our engineers invented what is now internationally known as the STREAMLINE Solder Fitting. This fitting successfully solved the problem because it permits the use of thinner walled copper pipe. This pipe, although having a thinner wall, is more than thick enough to withstand anything that might be encountered under service conditions. This fitting is connected to the pipe by soldering by an ingenious and revolutionary method which produces a joint of extraordinary strength and leak-proof qualities.

STREAMLINE COPPER PIPE

STREAMLINE Copper Pipe does not rust. On the contrary iron or steel pipe does rust and the rust while corroding the pipe also builds up an accumulation on the inside. As a matter of fact, iron rust occupies about ten times as much space as metallic iron. The iron rust gradually clogs the pipe until its waterway is almost, or even completely, eliminated. The result is a gradual diminishing of the water supply, and this supply contains impurities which are carried through the faucet by the flow of the water.

When rust once starts to accumulate in the interior of iron or steel pipe, it acts as an anchorage for other foreign matter which is present in practically all waters. Consequently, the interior becomes filled with a jelly-like mass of foreign particles combined with rust.

You've seen bathtubs that took an hour to fill, rust-stained water that colored the laundry—and heating systems that, no matter how much fuel was burned, failed to deliver a comfortable room temperature. In a great majority of cases this is due to rusted, clogged pipes.

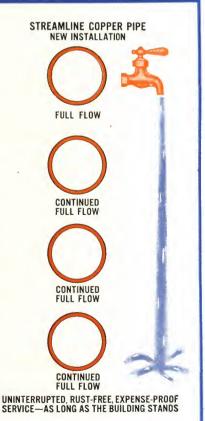
THE FLOW CAPACITY OF AN INSTALLATION OF STREAMLINE COPPER PIPE AND FITTINGS CONTINUES TO BE UNIFORM AND FREE, DELIVERING A MAXIMUM FLOW YEAR AFTER YEAR. HEATING SYSTEMS ARE MAINTAINED AT THEIR MAXIMUM EFFICIENCY.

The illustration to the right gives a clear idea of what actually

happens in rustable pipe as compared with a STREAMLINE Copper installation.



REPLACEMENT: AND THEN THE SAME THING ALL OVER AGAIN



STREAMLINE
PIPE AND FITTINGS DIVISION
MUELLER BRASS CO.
PORT HURON, MICHIGAN



HOW A JOINT IS MADE WITH COPPER PIPE AND STREAMLINE FITTINGS..

A STREAMLINE Solder Fitting, as the name implies, is connected to copper pipe by soldering and with the aid of one of nature's laws which we call capillary attraction. Capillary attraction is a property liquids possess of rising or being drawn up between clean, close fitting surfaces.

Here the plumber has assembled some copper pipe and STREAM-LINE Solder Fittings, and in the first illustration is heating the joint with a blow torch until it becomes hot enough to feed in the solder.

He then removes the torch and inserts wire or stick solder through a feed hole in the fitting. The solder coming in contact with the heated fitting becomes liquefied and is drawn in by capillary attraction and thoroughly bonds the pipe to the fitting. Owing to the never-failing law of capillary attraction, the solder is drawn in, down or up regardless of where the feed hole is located, always provided that proper conditions of tolerance and cleanliness are present. While the pipe and fitting shown in these illustrations is larger than that used in an ordinary residential installation, it serves to show more clearly how the joint is made.

When the work is properly done by plumber or steam-fitter, connections are made that are enormously strong and permanently leak-proof.

The OLD Method

Before the invention of the STREAMLINE Solder Fitting, practically all pipe, whether copper, brass, iron or steel, had to be threaded into the fitting to make a connection. Owing to the thick wall of copper and brass, it was very expensive, yet it had to be thick to cut a thread to connect it to the fitting, so that all the unthreaded portion was mostly expensive excess metal which rendered no service for its extra cost. Iron and steel pipes were subject to rust and leaky joints through corrosion and vibration. Their exposed threads inside the pipe often became anchorage points

The STREAMLINE Method

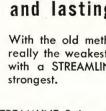
This illustration shows a piece of copper pipe connected with a STREAMLINE fitting. The pipe has been cut away so you can actually see the end of the pipe where it fits inside the fitting. Also, visible is the solder where it has filled the feed hole and where it has bonded the outer surface of the pipe to the inner wall of the fitting. Now as explained above, since this pipe is not threaded to connect and carries no extra wall thickness for that purpose, but is joined by this new unique method, only that wall thickness required in actual service is used and that is all that you pay for. Since the copper pipe won't rust, it doesn't need an extra heavy wall and it is made hard enough by working to withstand any abuse which might affect it in service.

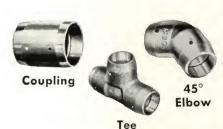
Why it is expensive and inferior!

for the building up of rust and other accumulation in the water. Sooner or later it had to be replaced.

Why it is superior and lasting!

With the old method of connecting, the joint was really the weakest point in the whole system, while with a STREAMLINE installation it is actually the strongest.





Illustrated here are three STREAMLINE fittings that are commonly used, the coupling, the 45° elbow and the tee. Although these are but three of the many thousands of fittings which comprise the complete line for all different piping purposes, they will give you a fairly good idea of just what a STREAMLINE fitting is and what it looks like. The small holes in the fittings are called solder feed holes, and as the name implies, are for feeding in the solder to bond them to the pipe.

STREAMLINE
PIPE AND FITTINGS DIVISION
MUELLER BRASS CO.
PORT HURON, MICHIGAN

STREAMLINE PIPE AND FITTINGS GIVE YOU all these Advantages...

LEAK-PROOF—When an installation of STREAMLINE Copper Pipe and Fittings are installed by a capable plumber, you need have no cause to worry about leaks. Leaks between ceiling and floor or behind walls due to faulty workmanship may be a very serious and expensive matter. They may do many dollars

worth of damage, not only to the walls or ceilings, but to the furnishings of the house as well, to say nothing of the inconvenience and expense of repair. Owing to an exclusive feature of the STREAMLINE Solder Fitting, the plumber can visually tell when the joint is leak-proof even without testing it.

RUST - PROOF — An installation of STREAM-LINE Copper Pipe and Fittings is rust-proof. There will

be no rust-stained laundry, bathtubs or lavatories.

FREE FLOW OF WATER

Since STREAMLINE Copper Pipe does not rust, and since it offers the greatest possible resistance to clogging, a full flow of water is permanently assured. Hot water runs quicker and hotter. Radiators do an efficient heating job. A non-rusting heating system is your best insurance against excessive fuel bills.

INEXPENSIVE—STREAMLINE Copper Pipe and Fittings for your plumbing system cost very little, if any more than rustable materials; in fact, so little that it is hardly worth considering, because under normal water

conditions it will give you peak service for the life of the building. Considering that there will be no future repair bills, STREAMLINE actually costs less than rustable piping.

Consult your Architect or Contractor

Be sure that your architect draws up the specifications to include STREAMLINE Copper Pipe and Fittings. When your architect specifies STREAMLINE, make sure that your contractor actually installs it. Do not allow any substitute. Insist on genuine STREAM-

LINE. It is marked for your identification. Even though your present plans may call for "ordinary" pipe and fittings, you can change to STREAMLINE.

Consult your Plumbing Contractor

Your plumbing contractor is an experienced and capable mechanic. The great majority of plumbing contractors have already installed STREAMLINE in many buildings. They know how efficient a STREAMLINE system is. They also know that, once they have installed it, they will have no complaints from you.

Remember too, that no matter how modern and expensive your bathroom and kitchen fixtures may be, their effectiveness depends upon a permanently reliable piping system.

For Modernizing your Present Home

If your home at present is equipped with the rustable type of pipe and fittings, it is probably beginning to give you trouble. If not now, it is inevitable, that in a comparatively short time, it will. The pipe will clog, rust, leak and deliver impure and rust-stained water. Why not for safety's sake have the present worn-out system replaced now with STREAMLINE Fittings and Copper Pipe . . . have it done before the damage happens. Don't make the mistake of replacing the worn-out plumbing or heating system with another system of rustable pipe and fittings that will again in a few short years begin to give you trouble.

STREAMLINE
PIPE AND FITTINGS DIVISION
MUELLER BRASS COPORT HURON, MICHIGAN

Answert o Modern Home Heating

NO MORE COLD FLOORS A CONTINUOUS FROM OF RADIANT HEAT

HOT WATER HEAT



OF HOT WATER HEATING AT LOW COST

MILD HEALTHFUL HEAT

In planning your new home, remember that heating controls your enjoyment of it many months of the year. Your health may depend

upon heating—and it is an important factor of living cost in all the years to come. Choose hot water heat for its mild, healthful quality. Ask any homeowner who has Thrush Hot Water Heating!

Thrush Flow Control System for automatically fired hot water heating, with forced circulation, is as far ahead of the old-fashioned heating your father may have had as the streamlined trolley-bus of today is ahead of the horse-drawn street cars of a generation back. Development of the Thrush Water Circulator has made heating with water

the finest and most accurately controlled home heating you can possibly imagine.

NO "ROASTING" OR "FREEZING"

No longer need you suffer the alternate "freezing" and "roasting," the ups and downs of other forms of heating. Now the mild, health-

ful radiant heat of hot water gives you uniform comfort throughout your home—and it is very economical to install and operate when Thrush Flow Control System is used.

NO MORE "SCORCHED" AIR

You do not breathe the "scorched" and vitiated air which is inevitable with hot air heating and you will not need expensive winter

"air conditioning" because hot water heating does not destroy the freshness of the air in the first place.

AND IT'S "QUICK HEAT"

The Thrush devices provide a unique operation different from any other type of heating. No longer do you wait for the boiler (or

furnace) "to heat up." Now a charge of heated water is kept in the boiler at all times so that it can be released to the radiators whenever heat is needed.

THRUSH HOT WATER HEATING IS AVAILABLE

THRUSH

FORCED CIRCULATING FLOW CONTROL
FOR AUTOMATICALLY FIRED
HOT WATER HEATING SYSTEMS

The Finest System of Home Heating Yet Devised!



THRUSH CIRCULATOR HAS REVOLUTIONIZED HEATING

THIS is the heart of the modern automatic hot water heating plant, the key to the efficiency of Thrush Flow Control System—the motive power which provides forced circulation to every radiator, even if below the level of the boiler or in a separate building.

* FORCED CIRCULATION

makes possible lower installation costs using smaller pipe, valves and fittings.

★ UNIFORM HEATING

is assured in every room because every radiator, regardless of location, receives the same instantaneous heat delivery.

* STORED HEAT

A charge of heated water is maintained in the boiler at all times so that it can be delivered to the radiators whenever the Thrush Radiant Heat Control calls for heat.

TO BULKY PIPES

Forced circulation makes possible the use of small copper pipe which takes up no usable space in your basement and is less expensive to install. There is plenty of space in your basement for a recreation room when you use Thrush hot water heating.

LOWER INSTALLATION COST

The reduction in material and labor costs through the use of Thrush System often completely offsets the cost of the Thrush devices.

T LOWER FUEL COST

Records from coast-to-coast prove that a Thrush Flow Control Hot Water System can be operated more economically than any other type of heating plant in use today.

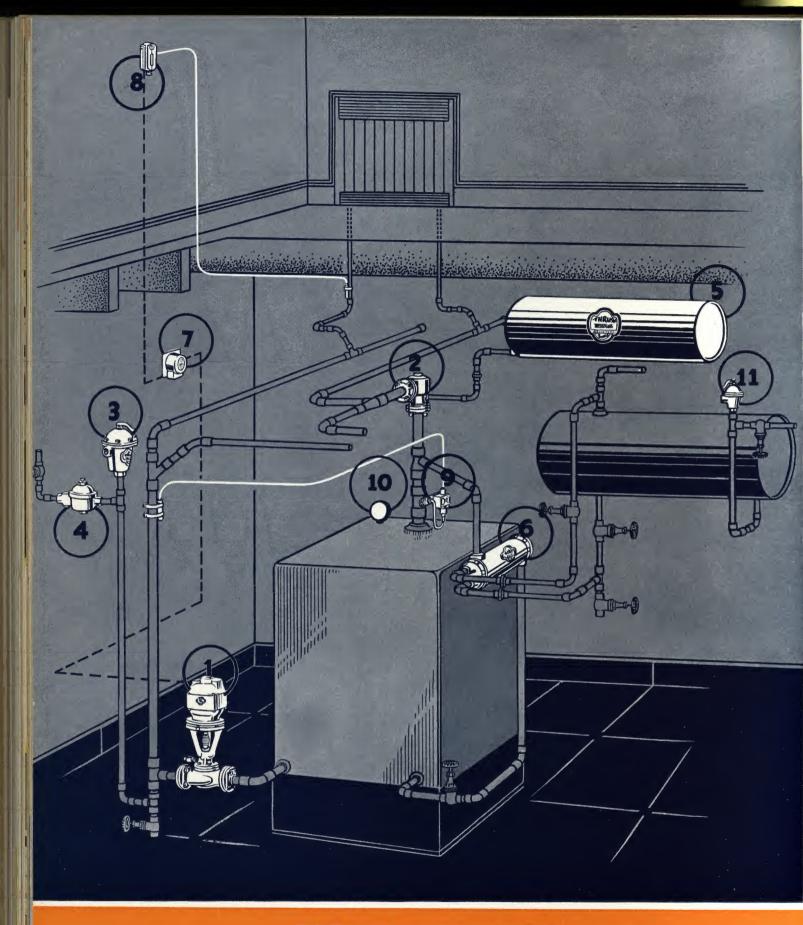
→ NO OVERHEATING

Its economy is due to accurate and complete control of heating medium and firing device. Wasteful and unhealthful overheating is completely eliminated.

TONSTANT RADIANT HEAT

You do not have that feeling of chilliness experienced with other forms of heating when the burner is "off" because radiators maintain body comfort through continuous radiant heat. No sudden drafts, no "layer cake" heating—the floors where the children play are warm.

LOWER COST THAN EVER



THRUSH FLOW CONTROL SYSTEM
FOR AUTOMATICALLY FIRED

HOT WATER HEAT

Here are the Controls

THAT MAKE THIS POSSIBLE!

T IS IMPORTANT to recognize that Thrush does not make or sell boilers or radiators but your heating contractor will figure the job complete with Thrush Flow Control System (see illustration at left-Thrush devices are in white). Because of the greatly increased efficiency, due to the inclusion of Thrush Controls and especially to the forced circulation feature, the saving in labor and materials due to the use of smaller pipe, valves, fittings, etc., often completely offsets the cost of the Thrush equipment, so you can have the finest modern heating plant at a lower price than you would have to pay for the old-fashioned uncontrolled system.

- 1. THRUSH WATER CIRCULATOR circulates water through every radiator quickly and positively when heat is required. There is no circulation from the boiler through the radiators when the Circulator is not running.
- 2. THRUSH FLOW CONTROL VALVE opens automatically when the Thrush Circulator operates and closes automatically when it stops. This prevents overheating and waste of fuel. It allows hot water to circulate through the radiators only when heat is needed.
- 3. SAFE PRESSURE RELIEF Because hot water expands when heated, a No. 4 Thrush Pressure Relief Valve is included with every Thrush Flow Control System. It will positively relieve excessive pressures and prevent damage from this source.
- 4. AUTOMATIC FILLING—Thrush Flow Control System is more completely automatic than any other hot water system ever was before. The No. 12 Thrush Pressure Reducing Valve keeps the system full of water-fills it automatically. When your heating plant is Thrush equipped you can forget about it-iust enjoy it.

- 5. THRUSH PRESSURE TANK When water in the heating system gets hot it expands. In Thrush System it is not wasted through the overflow but goes into this
- 6. PLENTY OF HOT WATER Thrush Water Heater, included as a part of the system, assures a plentiful supply of domestic hot water for kitchen, laundry and bath at trifling expense and eliminates the need for installing and operating a separate water heater.
- 7-8. CONSTANT RADIANT HEAT— No. 201 Thrush Radiant Heat Control included in Thrush Flow Control System maintains room temperatures at an even level and provides constant radiant heat (inset 7 is No. 198 Thrush Relay Transformer to provide low voltage for No. 201).
- 9. WATER TEMPERATURE CONTROL - No. 203 Thrush Modulating Water Temperature Control automatically raises or lowers boiler water temperature to meet the demands placed on the heating system by outdoor temperature fluctuations, saves fuel and relieves you of remembering another chore.





Gust H.

Your friends who have homes heated with Thrush Flow Control Hot Water System will tell you it is the most delightful experience their new home has provided.

It is so completely automatic you can forget about it from one heating season to the next.

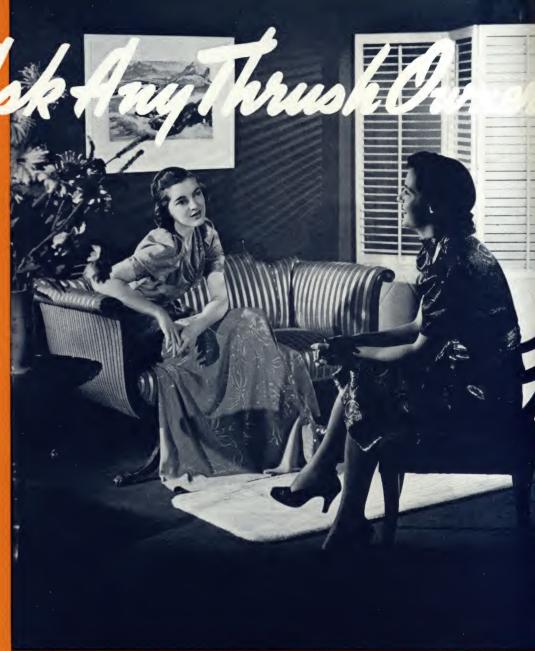
Your fuel bills will be amazingly low because Thrush equipment greatly increases the heating efficiency of the heating boiler you install and permits the automatic firing device to operate at its peak efficiency.

Constant radiant heat is a new and modern development — something you must experience to really appreciate. Thrush Controls are as sensitive to change as the human body itself.

They even anticipate the weather changes and provide added heat in the radiators when the temperature outdoors drops.

You don't wade in cold air while suffocating around your head and shoulders. Stratification of heat due to sudden starting and stopping of the source of heat is entirely eliminated by Thrush equipment.

And too, you have the luxury of plenty of low cost hot water all of the time for every household need.





THRUSH forced circulation makes possible the use of hot water heating in homes without a basement and at the same time it makes it entirely feasible to heat separate buildings or apartments, with individual controls, from the same heating boiler. This greatly reduces installation and operating expense and is an ideal arrangement for large estates and groups of factory buildings, cantonments, etc. It also permits the modern convenience of two-zone heating in the ordinary residence—one degree of temperature uniformly maintained in the living rooms on the ground floor, while a different temperature is maintained in the sleeping rooms where many people object to too much heat. It is all accomplished automatically.



How Thrush System

OPERATES SO EFFICIENTLY - COSTS SO LITTLE FOR FUEL!

LET'S REVIEW the advantages of adding Thrush Flow Control System to your hot water heating plant. First, it gives you a new heating comfort through constant radiant heat which you have never before experienced. It makes your system so entirely automatic that you can forget all about heating. It is more uniform and healthful than other forms of heating, does not dry out the air and has no alternate periods of "freezing" and "roasting." It is so efficient because there is no dependence on gravity or thermal circulation

Circulation is forced. Such circulation can be completely controlled so there is no waste of heat through overheating and wide fluctuations of temperature in the building never occur. (It costs more to heat a building that has been allowed to cool off too far than it does to maintain it at a uniform temperature.) Because all of the heat is used efficiently and none of it is wasted, Thrush owners tell us that their fuel bills are amazingly low. Many of them write us that they could hardly believe their eyes when they saw the totals for the first year's operation. Prominent home builders throughout the country install Thrush System because they know it helps them sell the homes they build. Certainly you want this fine, modern, streamlined heating for your home.

Now here's the best and most exciting news of all. The finest copper pipe job with the heating boiler of your choice—plus all Thrush controls—can be placed in your home even on the most modest budget.

Costs Less to Install

THAN THE OLD-FASHIONED GRAVITY JOB

BECAUSE Thrush forced circulation makes possible the use of small pipe, valves and fittings (with less labor), you can now have hot water heat in your home at a cost that compares favorably with that of any other form of heating. Remember too—a hot water system is an investment that lasts a lifetime. Modern radiators are more efficient and styled to modern home design. Thrush controlled automatic Hot Water Heating will give your home greater resale value too—you should get your money back if you ever sell.





THRUSH WATER HEATER

WHEN you have installed a Thrush Water Heater as a part of your Thrush Flow Control System you can enjoy the luxury of "soaking" in the shower or bath to your heart's content—knowing there'll be plenty of hot water for others and all the household needs besides. This is only one of so many outstanding advantages, we know you'll want to talk it over with your heating man. Be sure to tell him you want automatic hot water heat with Thrush Flow Control System installed with the hot water heating boiler you select. Added enjoyment of your home will repay you many times over.

TELL YOUR HEATING CONTRACTOR YOU WANT THRUSH HEAT!

water system.





